Issued Spring, 1988

University of Massachusetts at Boston Bulletin

Summer Sessions 1988

Division of Continuing Education
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

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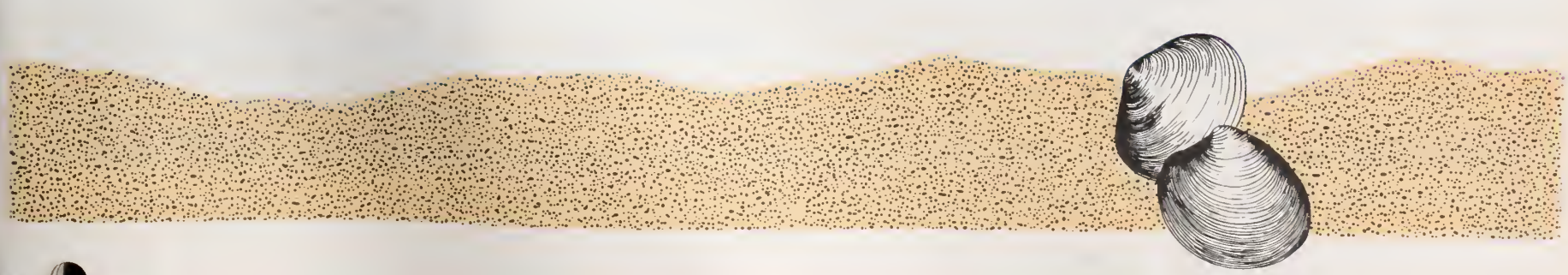

The University

UMass/Boston is the Boston campus of the University of Massachusetts, which in 1988 celebrates its 125th anniversary. The faculty here at UMass/Boston, distinguished both for scholarship and for dedication to teaching, works closely with students to maintain individual academic relationships. The resultant atmosphere of trust and camaraderie promotes rich opportunities for development in the pursuit of a superior education.

Three separate colleges grant bachelor's degrees at UMass/Boston, as do three professional programs. The College of Arts and Sciences offers students sound training in the liberal arts and prepares them for careers in such fields as law, medicine, and scientific research. The College of Management offers academic preparation for professional and managerial careers in commerce, industry, government agencies, and other institutions. The College of Public and Community Service prepares students — particularly experienced, older students — for careers in the social services. The Institute for Learning and Teaching offers programs in early childhood, elementary, and secondary education. The curriculum of the School of Nursing leads to the BS degree and entry into professional practice. The Program in Physical Education and Fitness offers specializations for students with a wide range of interests.

The University also conducts graduate programs in the central liberal arts disciplines, in business administration, in education, in nursing, and in such new or developing areas of study as computer science, human services, and environmental sciences.

UMass/Boston has two campuses: the Harbor Campus, which is three miles south of downtown Boston on Dorchester Bay, and the Downtown Center, in Boston's Park Square. For directions to these campuses, see page 4.

The University offers numerous undergraduate and graduate courses during its summer sessions, as well as a wide range of special programs. The courses and programs for summer, 1988, are described in this bulletin.

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Summer Admission

Students who have graduated from high school or who have earned certificates of general educational development are welcome to take summer session courses at the University of Massachusetts at Boston. College-bound high school juniors and seniors interested in beginning their college educations are also invited to take summer session courses. The University assumes that students registering for undergraduate courses will accurately assess their ability to do college-level work. It is the responsibility of students to meet prerequisites for individual courses.

To be admitted to any graduate level course a student must have earned a bachelor's degree, unless other requirements are specified in this bulletin or unless written permission is obtained from the faculty member teaching the course.

Summer session courses carrying credit are equivalent in method and content to regular University courses. Credits earned in these courses may be applied toward UMass/Boston degree requirements and are ordinarily accepted as transfer credits by other colleges.

Summer enrollment does not imply acceptance into a degree program at the University of Massachusetts at Boston. Any student who wishes to matriculate at the University must submit an application to the Admissions Office. (If the student does matriculate, as many as sixteen undergraduate credits, or six graduate credits, earned during the summer, may be counted toward degree requirements.)

Courses in the College of Arts and Sciences marked with the prefixes "C," "D," and "E" belong to the Core Curriculum, and thus meet specific requirements for degree-seeking students (though they are also open to non-degree-seeking students). Some of these requirements for students who matriculated before the fall of 1985 are different from the requirements for students who have matriculated since that date. To insure that they take core courses appropriate to their specific requirements, all CAS matriculated students must pick up advising materials concerning the Core Curriculum (including the Writing Proficiency Requirement) prior to registration for the Summer Session, at the College's Office of Academic Support and Advising (M/3/625, 929-8220) or at the Division of Continuing Education. Prospective UMass/Boston students are advised to consult the UMass/Boston *Undergraduate Catalog* for further information about the core curriculum and other degree requirements. General information about UMass/Boston degree programs is available from the Office of New Student Services at 929-8600.

Registration Form — Continuing Education — Summer, 1988

Please be sure to provide the numbers requested below. They are needed for coding purposes.

Social Security #: ___ ___ UMass/Boston ID # (if any):

Name
Last First Middle Initial

Address
No Street City State Zip

Student Status

○ Graduate ○ Undergraduate _____ Bachelor's Degree Received From

Current UMass/Boston student?

○ Special ○ Matriculated _____ Major

Studying in UMass/Boston's RN Program?

○ Special ○ Matriculated

Student at other college or university?

○ Yes ○ No If Yes, where?

Sex

○ Male ○ Female

Date of Birth
Mo. Day Year

Residency Status

○ In State ○ Out of State ○ Foreign

Veteran Status

○ Veteran ○ Non-veteran

Student Visa

○ Yes ○ No

Daytime Phone: ( )

Evening Phone: ( )

Ethnic Survey Information (Required by Federal Government)

A. American Indian/Alaskan Native
B. Black Non-Hispanic
C. Asian or Pacific Islander
D. Hispanic
E. Non-resident Alien
F. White Non-Hispanic
G. Do not wish to report
H. Cape Verdean

Course Selections

Sched. No.	Course No.	Title	Starting Date	Credits		Course Fee/Credit		Lab Fee (if any)		Total Course & Lab Fee
					×		+		=	
					×		+		=	
					×		+		=	
					×		+		=	

MasterCard and VISA Only

The University of Massachusetts at Boston, Division of Continuing Education, will accept MasterCard or VISA for payment of fees. If you would like to make use of this service, please provide the information requested.

Account No.

Expiration Date

Student's Name (Print)

Student's Signature

Print name of person to whom card was issued if different from above

If a student withdraws or a course is cancelled, the refund will be made only as a credit to the student's MasterCard or VISA account.

Full payment must accompany all registrations.

Method of Payment

○ VISA ○ MasterCard
○ Check ○ Other

Make checks payable to University of Massachusetts—Continuing Education

Send checks and forms to:
Division of Continuing Education
Box C
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

For Office Use
Rec'd: Date:
Batch: Bank No.:

Course Fees

Undergraduate	$65.00/credit
Graduate	$80.00/credit

Please Note:

This form is to be used only when registering for credit courses. To register for non-credit courses, please use the form on page 23

Please calculate payment below.

Course and Lab Fees (total)*	
Total Service Fees	$48.25
Additional Fees	
Subtotal	
Late Fee (if applicable)	$25.00
Total Payment Enclosed	

* Remember to make out a separate check for the total course and lab fee for each course.

When you use this form to register by mail, your cancelled checks will be your receipt.

Academic Calendar

	First Six-Week Session	First Four-Week Session	Second Six-Week Session	Second Four-Week Session
Registration Deadline	May 20	May 20	July 8	June 24
Late Registration*	May 23-25	May 23-25	July 11-13	June 27-29
Waiver Registration**	May 23-25	May 23-25	July 11-13	June 27-29
Classes Begin	May 31	May 31	July 18	July 5
Add/Drop Deadline	June 3	June 3	July 22	July 8
Holidays	June 17, July 4	June 17, July 4	—	—
Pass/Fail and Withdrawal Deadline	June 24	June 17	August 12	July 22
Last Day of Class and Final Exam	July 13	June 30	August 25	August 4

*A $25 late fee will be assessed during these periods.

Note: Computer science courses and other special courses and programs may have different starting and ending dates. Please be sure to consult the description of the course or program in which you are interested for specific information.

**Registration for students who qualify to receive total or partial course and/or fee waivers will be conducted on the dates specified for waiver registration for that course or courses. Students registering with waivers during this period will not be charged a late fee. (See Course Fee Waiver and Remission Policy, p. 21).*

Registration for Summer Session Courses

● Advance Registration by Mail

To register by mail for summer session courses. fill out the registration form included in this bulletin and send the form to:

Summer Session Registration
Science Building, 2nd Floor Lobby
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

Registrations will be accepted on the basis of available space. Full payment must accompany the registration form (see "Fees and Payments").

● Advance Registration by Telephone

Students wishing to pay course and service fees by using MasterCard or VISA may register by telephone. To register by telephone for summer session courses, simply call **929-7933.**
Note: Unfortunately, telephone registration is available only to students wishing to pay course and service fees by using MasterCard or VISA.

● Walk-In Registration

Students who would rather register in person may do so at any time up to the registration deadlines listed in the Academic Calendar. Walk-in registration will take place at the Summer Session Registration Center at the Harbor Campus (Science Building, 2nd Floor Lobby) during the following times:

M-Th 8:30am-6:00pm, F, 9:00am-4:00pm

● Late Registration

Late registration will take place at the Summer Session Registration Center at the Harbor Campus (Science Building, 2nd Floor Lobby) during the periods listed in the Academic Calendar. Students registering during these periods must pay a $25.00 late registration fee.

● Further Information

For further information about registering for summer session courses, call **929-7900.**

● Continuing Education Office

Harbor Campus
Wheatley Hall, 2nd Fl., Rm. 203, 929-7900
M-Th, 9:00am-7:00pm; F, 9:00am-4:30pm

The Division of Continuing Education is responsible for the planning and supervision of the summer sessions. Although actual registration takes place at the Summer Session Registration Center, the Continuing Education Office is set up to distribute information and resolve problems.

● Summer Session Registration Center

Harbor Campus
Science Building, 2nd Fl., Lobby
M-Th, 8:30am-6:00pm; F 9:00am-4:00pm

● Advance Registration for all Sessions — April 4-May 20

Students are urged to register by mail, by phone, or in person as early as possible before the summer sessions begin, both to assure themselves places in courses of their choice, and to assure that the courses they wish to enroll in will be taught. Students can register during this period for courses scheduled to begin at any time during the summer.

One week before each session begins, all courses in that session that have not reached minimum enrollment will be cancelled. Late registrations for courses that have reached minimum enrollment will be accepted during the Add/Drop period until maximum enrollment is reached.

● Location Key

Harbor Campus (HC)

W Wheatley Hall
M McCormack Hall
S Science Building
H Healey Library
A Administration Building*
C Clark Athletic Center

Building, floor, and room numbers are given in that order for specific locations. Example: M/2/618 refers to McCormack Hall, second floor, room 618. M/3/618 refers to McCormack Hall, third floor, room 618. Please note that the same room numbers may be found on more than one floor in the same building, so that the room number (618) does not indicate what floor the room is on.

*As this publication went to press the Administration Building was to be renamed, in an April, 1988 dedication ceremony, the Robert H. Quinn Building.

Downtown Center (DC)

The first digit of each number indicates the floor.

What's going on here? Find out in Anth 367, Witchcraft and Sorcery. See page 6.

● **Spring, 1988**
Volume 8, Number 3

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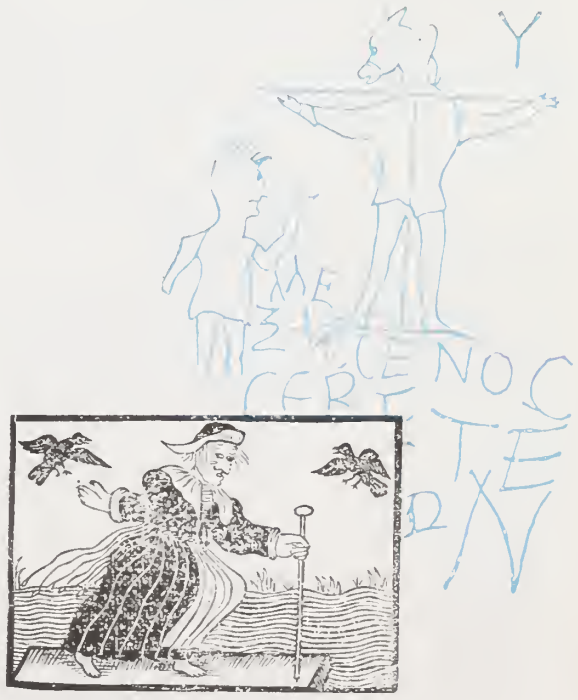
The University of Massachusetts at Boston is an affirmative action/equal opportunity employer and prohibits discrimination on the basis of race, color, sex, age, religion, national origin, sexual orientation/preference (homosexuality), handicap condition, or veteran status in its employment, in the recruitment, admission, and treatment of students, and in its policies and programs, as required by federal and state laws and regulations. All inquiries regarding Title IX of the Educational Amendments of 1972 and/or Section 504 of the Rehabilitation Act of 1973 may be directed to Ms Jocelind Gant, Director of Affirmative Action, University of Massachusetts at Boston, Harbor Campus, Boston, MA, 02125, (617) 929-7075. Inquiries regarding the application of the non-discrimination policy may also be directed to the Coordinator or the Assistant Secretary for Civil Rights, US Department of Education.

The University of Massachusetts at Boston is accredited by the New England Association of Schools and Colleges. The University of Massachusetts at Boston is a member of the North American Association of Summer Sessions and the National University Continuing Education Association. The University of Massachusetts at Boston is a member of the Council of Graduate Schools of the United States and the Northeastern Association of Graduate Schools.

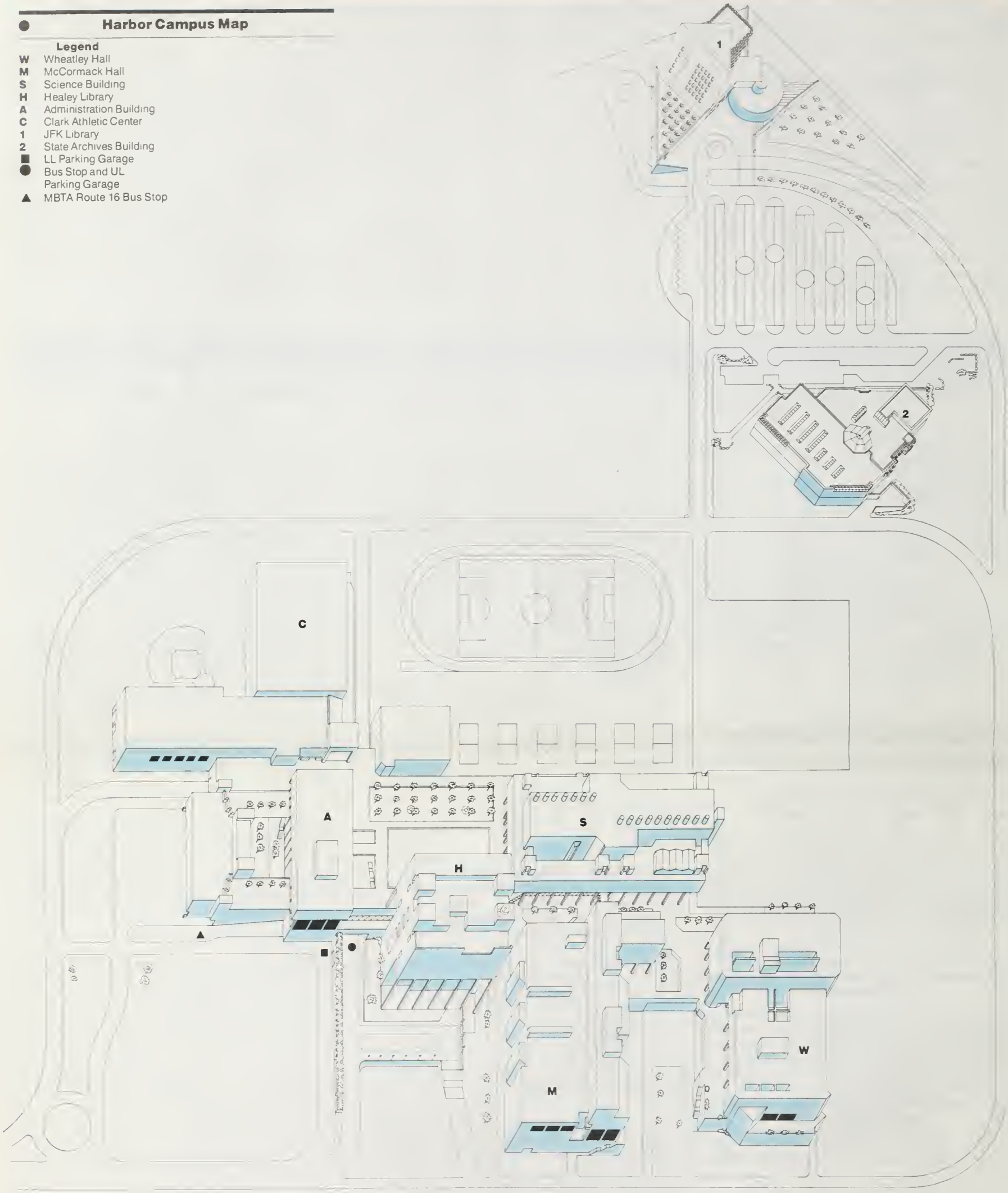


Campus Map and Travel Directions

Harbor Campus Map

Legend

- **W** Wheatley Hall
- **M** McCormack Hall
- **S** Science Building
- **H** Healey Library
- **A** Administration Building
- **C** Clark Athletic Center
- **1** JFK Library
- **2** State Archives Building
- ■ LL Parking Garage
- ● Bus Stop and UL Parking Garage
- ▲ MBTA Route 16 Bus Stop



Harbor Campus

The Harbor Campus is only three miles from downtown Boston and is easily accessible by public or private transportation. *From the north or west:* Take the Southeast Expressway to exit 15. Turn left onto Columbia Road. Enter the rotary and take the first right (Morrissey Boulevard). Bear right of the traffic island, following the UMass/Boston sign. Proceed past the *Boston Globe* building. Turn left into the campus. *From the South:* Take the Southeast Expressway to exit 14 (near the Boston Gas tanks). Follow Morrissey Boulevard northward to the campus. Parking is available in two underground garages. Operators of all vehicles, except motorcycles, must pay $2.00 per day to park in a garage (motorcycles: $1.25 per day). Discount tickets authorizing ten days' parking are also available at the parking booths for $15.00 (cars) or $7.50 (motorcycles). *On the MBTA:* Take the Ashmont train on the Red Line to JFK/UMass (formerly Columbia) station. Transfer to the free University shuttle bus in the T parking lot.

Downtown Center

The Downtown Center is at the corner of Arlington and Stuart Streets in Park Square, Boston, within a short distance of the Green Line Arlington stop.

Academic Skills

Academic Skills 034
Fundamentals of Algebra

This is a course for students who have mastered arithmetic but not beginning algebra. They are either students who never studied algebra in high school, or who studied it so long ago or so ineffectively that they must approach all introductory algebra topics as new rather than review material. The course has two major goals: 1) to introduce students to algebraic notation and concepts so that in one reasonably paced semester in Math D110 they can learn the material needed to enter the pre-calculus course (Math D130); 2) to develop successful study and test-taking techniques so that students will be prepared to handle the pressure of regular math department courses and exams. The course will cover the following topics: integral components; polynomials — their simplification, combination, and evaluation; linear equations — how to solve them, graph them, and use them to solve word problems; ratios and proportions. The course will also introduce such topics as systems of equations, multiplication, and factoring of polynomials. Note: The fee for this two-credit course is $195.
Prerequisite: Math Diagnostic Test only.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/020, Staff, Sched No 708351, 2 Credits
Evening
May 31-July 13, MTuWTh 7:15-8:45pm, Harbor Campus W/1/020, Staff, Sched No 708406, 2 Credits

Accounting and Finance

AF 201 P
Personal Finance

Introduces students to planning and managing personal and family finances. Topics covered include insurance and estate planning, relationships with banks, issues in home ownership/real estate, the fundamentals of investing in stocks and bonds, tax planning, leasing as compared with buying automobiles, and financing college education.

The course cannot be counted toward the finance or accounting concentrations in the College of Management.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/2/127, Mr Stabile, Sched No 701808, 3 Credits

AF 210
Financial Accounting

Presents the theory and techniques of financial accounting. The course encompasses the basic functions of collecting, processing, and reporting accounting information for interested third parties (e.g., owners, investors, and government) and enables students to analyze, interpret, and use accounting information effectively.
Prerequisite: Sophomore standing.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/2/158, Mr Stabile, Sched No 702002, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/2/158, Mr Anglovich, Sched No 702052, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/2/158, Mr Lyken, Sched No 702252, 3 Credits
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/2/158, Mr Lyken, Sched No 702307, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Downtown Campus 509, Mr Anglovich, Sched No 702357, 3 Credits

AF 211
Managerial Accounting

Presents the theory and techniques of managerial accounting, from the particular perspective of the manager. The course covers the identification analysis of costs within the organization, and illustrates how managers use such knowledge for planning and control. Major topics include responsibility accounting, comprehensive and cash budgeting, and standard job order and process cost systems.
Prerequisite: AF 210.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/2/158, Staff, Sched No 702557, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/2/158, Mr Donchess, Sched No 702602, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/2/198, Mr Noorian, Sched No 702802, 3 Credits
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/2/158, Mr MacQuarrie, Sched No 702852, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Downtown Campus 509, Mr MacQuarrie, Sched No 702907, 3 Credits

Note: Any student wishing to take AF 301 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; 3) must have completed all UMass/Boston course prerequisites or their equivalent with a C- (C minus) or better; and 4) must be in good academic standing. Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services before the last day of late registration for the summer session.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

AF 301
Financial Management

(See note above.)

Introduces financial management, both short-term and long-term, including working capital management and budgeting, leverage, debt capacity, dividend policy, and time-value of money. The course also acquaints students with the kinds of securities issued by public and private entities.
Prerequisites: AF 210,211.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/2/198, Staff, Sched No 703101, 3 Credits

American Studies

AmSt C202
The Twenties

This course focuses on the impact of World War I, and of the post-war social, economic, and political environment, on selected issues of American life in the 1920s: the rise of social and political intolerance; the businessman as hero and anti-hero; the "lost" generation; the "New Woman" and the "New Negro."
Core Area: Historical and Cultural Studies.
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/428, Ms Raub, Sched No 703551, 3 Credits

AmSt E203
The Thirties

A study of American society and culture during the years from the Panic of 1929 to the attack on Pearl Harbor in December, 1941, using several kinds of evidence: the accounts of people who lived during the decade, the interpretations of historians, and the representations of artists, writers, and filmmakers. The objective of the course is to develop an idea of the main characteristics of American society and culture during the 1930s, a conception of the decade's significance, and an increased understanding of the processes of historical and cultural analysis and interpretation.
Core Area: Historical and Cultural Studies.
Midday/Afternoon
May 31-July 13, MW 1:30-4:30pm, Harbor Campus W/1/041, Mr Danker, Sched No 704200, 3 Credits

AmSt E204
The Forties

This course will deal with the history and culture of America in the forties. The course does not deal with the conduct of World War II but focuses rather on the social, political and scientific effects of the war. Issues include, among others, the development of the "permanent war economy," the position of women and blacks in industry and the military, the internment of the Japanese Americans, the rise of McCarthyism, the effects of the war on GI's, the development of a mass consumer culture and the rise of Madison Avenue. Particular attention will be paid to the rise of the United States into economic and military predominance, to the development of the Cold War, to "Atomic Diplomacy," and to the origins of the Vietnam War in the Truman Administration.
Core Area: Historical and Cultural Studies.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/2/621, Mr Atwood, Sched No 704400, 3 Credits

AmSt E205
The Fifties

A look at the United States from the end of World War II until the election of John F. Kennedy, when America became the world's military and economic power. The course focuses on the ways in which the same system that created the unprecedented affluence of the time also undermined the satisfaction of the populace by creating new problems and new expectations about the nature of a "good society." The "silent fifties" were to set the stage for the "turbulent sixties." Topics include the Cold War, the Red Scare, work, consumerism, conformity, family life, race relations, youth, and popular culture, with special emphasis on the rise of "rock and roll." The material studied is taken from history, sociology, literature, autobiography, movies, popular music, and magazine advertisements.
Core Area: Historical and Cultural Studies.
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/2/214, Mr Goff, Sched No 703751, 3 Credits

AmSt C206
The Sixties

The course focuses on protest and the role of youth. Who protested and why? Was the phenomenon of the sixties an aberration or part of a larger radical tradition in America? What was the impact on the seventies? Readings are drawn from participants in the student, black, feminist, and peace protest movements, from the intellectuals who defended and attacked them, and from the growing body of retrospective, analytic, and historical literature which attempts to explain what really happened in that tumultuous decade. Films will be shown when appropriate.
Core Area: Historical and Cultural Studies.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/2/214, Ms McCay, Sched No 703951, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/2/214, Ms McCay, Sched No 704000, 3 Credits

AmSt 380
The Kennedys of Boston

This course provides a background on the Kennedys and their times. It analyzes some of the political and cultural processes of which the Kennedys were a part, and in particular traces the rise of the family in the context of the Boston Irish. Audio-visual material will be used where appropriate to examine the role played by the media, that is, print, film, and television, then and now, in forming popular images of the Kennedy family.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/041, Mr Danker, Sched No 704600, 3 Credits

Analysis and Communication in Management

Note: any student wishing to take ACM 210 or ACM 211 must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university.

ACM 210
Critical Thinking and Writing

Offers instruction and practice in the writing of persuasive, analytical prose. The course encourages students to write with the clarity and coherence necessary for managerial problem solving. *It is required for students who have not passed the College of Management Writing Proficiency Examination by the time they have earned 30 credits.*
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/019, Ms Doreski, Sched No 700404, 3 Credits

ACM 211
Writing and Managerial Thinking

Builds upon the critical thinking and writing skills students develop in ACM 210 and extends those skills to managerial thinking and writing. The course emphasizes clarity and structure in case analysis and project reports.
Prerequisite: ACM 210
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/2/126, Ms Woodward, Sched No 700460, 3 Credits

Anthropology

Anth C100
Culture and Human Behavior

Our own daily behavior is often taken for granted as rational or logical, while the behavior of other groups is often seen as "strange" and incomprehensible. Looked at closely, however, the apparently strange behavior of others may become more understandable, while our own behavior may seem less rational and less ordinary. Focusing comparatively on the contemporary United States and on non-western societies, this course examines selected human activities, such as eating, play and sport, and making a living. The aim is to learn how the concepts and methods of sociocultural anthropology, as one of the social and behavioral sciences, can help us understand human behavior, both our own and that of people in other times and places.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus M/1/417, Mr Fazel, Sched No 705204, 3 Credits

Anth D102
Introduction to Archaeology and Biological Anthropology

The study of the biological and cultural heritage of humans. Topics include primate and human evolution, evolution of prehistoric cultures, and human adaptation and variation.
Core Area: Natural Sciences.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/1/201, Staff, Sched No 705604, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/1/201, Staff, Sched No 705654, 3 Credits

Anth E103
Introduction to Cultural Anthropology

The study of recent and contemporary human societies in cross-cultural perspective. Through the use of ethnographic accounts, the course analyzes and compares variations in processes of cultural change, and in cultural adaptations.
Note: Anth D102 is not a prerequisite to Anth E103.
Core Area: Social and Behavioral Sciences.
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/608, Mr Kingsbury, Sched No 705854, 3 Credits

Anth C271
Peoples and Cultures of the Middle East

An examination of historical and sociopolitical forces in the formation of the contemporary Middle East: the cultural, ethnic, and economic diversity of modern nation-states in this region; neo-colonialism and imperialism as persisting obstacles to development and progress in this part of the world; and the role of Islam in reformist and revolutionary movements.
Core Area: Historical and Cultural Studies.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/1/417, Mr Fazel, Sched No 705404, 3 Credits

Anth 280
Ethnomusicology: Music, Society, and Culture

This course will introduce students to ways in which social and cultural values are manifested in music and will show how an anthropological perspective can increase our understanding of it. Emphasis is placed on the variety of humanly organized sound we call "music," as well as on the uses, meanings, and social-cultural contexts in which music is performed. Examples are drawn from West Africa, native North America, Afro-America, India, and Eastern Europe.
Prerequisite: Sophomore standing.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus M/1/417, Mr Kingsbury, Sched No 706058, 3 Credits

Anth 367
Social and Cultural Perspectives on Witchcraft and Sorcery
Beliefs about people with extraordinary powers to cause harm or good are found in societies of different types and in different periods in history. This course examines such beliefs in a number of different cultural, geographical, and historical contexts in order to demonstrate ways in which anthropologists and other social scientists approach the more general problem of understanding the function of belief systems in human society. The course does not teach techniques of witchcraft or sorcery.
Prerequisites: Anth E103, and junior or senior standing, or permission of instructor.
Midday/Afternoon
May 31-July 13, TuTh 1:30-4:30pm, Harbor Campus M/1/201, Mr Harwood, Sched No 706258, 3 Credits

Art

Art C100
The Language of Art
The course teaches students to begin to understand the processes of artistic creation. It enables the student to grasp the expressive content of works of art in a wide variety of media and to analyze how the artist creates his/her effect. It is not an historical survey. Through lectures, discussions, field trips, and museum visits, the student studies paintings, sculptures, and buildings with examples chosen as often as possible from the Boston area. The course addresses such concepts as rhythm, pacing, elements of stability versus change, and the possibilities of differing interpretations of subject matter through formal variations. It offers a solid introduction to the arts by developing the student's ability to see, and to analyze, forms as the result of aesthetic and interpretive decisions.
Core Area: The Arts.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/3/407, Ms Lane, Sched No 706658, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/3/430, Staff, Sched No 706703, 3 Credits

Art C 199
Visual Thinking
This course serves as an introduction to visual arts by emphasizing how one thinks visually. It provides training and exploration in the organization of sensory experiences — experiences which are already ordered in forms of art and design, or which are encountered haphazardly in the world around us. Writing assignments will complement studio exercises, lectures, and selected readings dealing with such issues as space, light, color, and composition.
Core Area: The Arts.
Morning
July 18-August 25, TuWTh 8:45-11:30am, Harbor Campus H/8/016, Ms Erman, Lab Fee: $25.00, Sched No 706919, 3 Credits
Evening
May 31-July 13, MTuW 6:00-8:45pm, Harbor Campus H/8/016, Ms Weisberg, Lab Fee: $25.00, Sched No 706903, 3 Credits

Art E250
Art of the Twentieth Century
An analysis of the art of the twentieth century involves fundamental issues of form and content shared by all the arts. Taking a threefold approach — formal, critical, and historical — this course examines the development of modern painting, sculpture, and architecture, as well as the ascendant art forms of photography, video, and performance. It analyzes general theories and specific works in detail. Through class discussions, reading assignments, papers, and field trips, the student learns that the formal problems posed by twentieth-century visual art are closely related to those in literature, music, and theatre, for they are problems of structure and definition, harmony and rhythm, diction and coherence. The student thus develops critical capabilities that he or she can apply to works by Picasso or Eliot, Matisse or Ravel.
Prerequisite: Sophomore standing.
Core Area: The Arts.
Midday/Afternoon
May 31-July 13, TuTh 11:45am-2:45pm, Harbor Campus M/3/407, Ms Calo, Sched No 707107, 3 Credits

Art E265
Film Analysis
Any thorough and systematic study of film, because of its essentially interdisciplinary nature, must address concerns and problems common to other forms of artistic expression such as literature, theatre, painting, and photography. The particular approach taken in this course to the study of film offers an encounter with the works that goes beyond the conventional experience of theatre and TV viewing and employs special methods of projection that permit detailed analysis by means of the use of slow motion and still frame techniques. The films thus studied will include examples of classic Hollywood, contemporary American, and foreign feature films, and the documentary. The course is not primarily historical in emphasis; rather, its use as the vehicle for narrative and theme, and major film types and styles. Special attention is given to the analysis and interpretation of sequences from the films studied in class.
Prerequisite: Sophomore standing.
Core Area: The Arts.
Evening
July 18-August 25, MWTh 6:00-9:00pm, Harbor Campus M/3/407, Mr Putnam, Lab Fee: $20.00, Sched No 707307, 3 Credits

Art 210
American Art in Boston
This course surveys American painting, sculpture, and architecture from colonial times to the early twentieth century, with a particular emphasis on art and architecture in the Boston area. Classes consist of both slide lectures and field trips, to examine American paintings and sculpture at the Museum of Fine Arts and to visit such significant Boston buildings as Trinity Church and the Boston Public Library. Students are introduced to some major movements in American art (Neoclassicism, Romanticism, Realism), to the work of such leading Boston artists as Washington Allston, and to the artistic taste of Boston patrons.
Midday/Afternoon
May 31-July 13, MW 1:30-4:30pm, Harbor Campus M/3/407, Staff, Sched No 707507, 3 Credits

Art 210A
Contemporary Art
This course examines developments in painting and sculpture from the Second World War to the present in both Europe and the United States. The diversity of styles and movements during this forty-year period is unmatched in the history of art, while the social and historical circumstances which gave rise to this diversity are certainly the most complex of the modern era. The course explores those circumstances in order to understand better the matrix of art and history. It also analyzes the writings of artists and critics. Visits to local collections are an important part of the course. (This course will not count towards the major.)
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus M/3/407, Mr Stern, Sched No 707535, 3 Credits

Art 275
Visual Fundamentals II
A further development of the creative issues explored in Art 175, in this case concentrating on three-dimensional problems.
Prerequisite: One 100-level art course.
Midday/Afternoon
May 31-July 13, MTuW 11:45am-2:30pm, Harbor Campus H/8/016, Ms Ackley, Sched No 707563, 3 Credits

Art 281
Drawing I
Basic materials and techniques, with emphasis on drawing as a primary means for the description and interpretation of human beings and their environment. Problems in still life, landscape, and life drawing.
Prerequisite: One 100-level art course.
Midday/Afternoon
July 18-August 25, MTuWTh 1:30-4:30pm, Harbor Campus H/8/009, Staff, Sched No 707707, 3 Credits

Art 293
Photography I
An introduction to basic issues in photography. The mechanics of the camera, the techniques of the darkroom, and matters of creative and personal import are addressed through illustrated lectures, class critiques, and assigned lab hours. Some attention is given to the history of photography.
Prerequisite: One 100-level art course.
Midday/Afternoon
Lect: May 31-July 13, TuWTh 12:00noon-4:00pm, Harbor Campus H/8/025, Ms Shook, Sched No 707907, 4 Credits
Lab: May 31-July 13, MF 12:00noon-4:00pm, Harbor Campus H/8/025, Lab Fee: $30.00, Sched No 707957

Art 380
Bookmaking
This studio course concentrates on traditional and non-traditional visual books as structures for the presentation of ideas. Each student produces a visual book using photographic methods or non-traditional photographic methods such as black and white or color xerox. In addition, the course examines the history and the contemporary uses of artist's books by the viewing of representative examples, and through lectures by artists who make books. Class time also includes simple bookbinding demonstrations, group critiques of work in progress, and work on individual books. Note: A lab fee of $25.00 will be required of students needing to use the photography lab.
Prerequisites: Two studio courses in any one medium or permission of instructor.
Morning
May 31-July 13, MTuWTh 8:30-11:15am, Harbor Campus H/8/025, Ms Shook, Sched No 707991, 3 Credits

Biology

Biol D101
The Basis of Life
The uniqueness of life within the physical universe. The matter and energy of life, the genetic code, molecular biology, and the origin and evolution of life. An overview for students in the humanities and social sciences of those features which distinguish living organisms from non-living things No background in the natural sciences is required.
Core Area: Natural Sciences.
Morning
May 31-June 30, MTuWThF 8:15-9:50am, Harbor Campus M/1/409, Ms Halpern Sched No 709650, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/004, Mr Toto, Sched No 709705, 3 Credits

Biol D102
Evolutionary Biology
Designed for students in the social sciences and humanities. Those areas of genetics, ecology, and evolution that form a unified approach to the study of organisms and populations. No background in the natural sciences is required.
Core Area: Natural Sciences.
Morning
July 5-August 4, MTuWThF 8:15-9:50am, Harbor Campus M/1/409, Mr Bradley, Sched No 709905, 3 Credits

Biol D111
General Biology I
An integrated course stressing the principles of biology. Life processes are examined primarily at the molecular and cellular levels. Intended for students majoring in biology or for non-majors who wish to take advanced biology courses.
Core Area: Natural Sciences.
Morning
Lect: May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/1/409, Mr Fregeau, Sched No 710102, 4 Credits
Lab: May 31-July 13, MW 12:00 noon-3:00pm, Staff, Lab Fee $20.00, Sched No 710207
Evening
Lect: May 31-July 13, MW 6:00-9:00pm, Harbor Campus M/1/409, Mr Murray, Sched No 710152, 4 Credits
Lab: May 31-July 13, TuTh 6:00-9:00pm, Staff, Lab Fee $20.00, Sched No 710257

Biol D112
General Biology II
An integrated course stressing the principles of biology. Life processes are examined primarily at the organismal and population levels. Intended for students majoring in biology or for non-majors who wish to take advanced biology courses.
Prerequisite: Biol D111.
Morning
Lect: July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus M/1/409, Mr Fregeau, Sched No 710457, 4 Credits
Lab: July 18-August 25, MW 12:00-3:00pm, Staff, Lab Fee: $20.00, Sched No 710552
Evening
Lect: July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/1/409, Mr Murray, Sched No 710502, 4 Credits
Lab: July 18-August 25, TuTh 6:00-9:00pm, Staff, Lab Fee: $20.00, Sched No 710607

Biol 108
Introduction to Nutrition
Introduction to the elements of nutrition with emphasis on nutrition for humans; examination of foodstuffs and nutritional quality, physiology of food utilization, food quality regulations, and the global ecology of food production. No background in the natural sciences required.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/004, Staff, Sched No 710807, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/004, Wilkes, Sched No 710902, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/1/409, Staff, Sched No 710857, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus W/1/004, Staff, Sched No 710952, 3 Credits

Biol 207
Anatomy and Physiology I
A study of the human organism, correlating structure and physiological mechanisms. Emphasis on skin, the special senses, and the skeletal, articular, muscular, nervous, and endocrine systems. Required of nursing majors.
Prerequisite: Biol D111 or equivalent.
Morning
Lect: May 31-June 30, MTuWTh 9:00-11:00am, Harbor Campus M/2/008, Mr Guimond, Sched No 711156, 4 Credits
Lab: May 31-June 30, MW 11:00am-2:00pm, Ms Joyce-Bird, Lab Fee: $20.00, Sched No 711201
Lab: May 31-June 30, TuTh 11:00-2:00pm, Ms Joyce-Bird, Lab Fee: $20.00, Sched No 711251

Biol 208
Anatomy and Physiology II
A continuation of Biol 207. Emphasis on the digestive, circulatory, respiratory, excretory, and reproductive systems. Required for nursing majors.
Prerequisite: Biol 207.
Morning
Lect: July 5-August 4, MTuWTh 9:00-11:00am, Harbor Campus M/2/008, Ms Joyce-Bird, Sched No 711451, 4 Credits
Lab: July 5-August 4, MW 11:00am-2:00pm, Ms Joyce-Bird, Lab Fee: $20.00, Sched No 711506
Lab: July 5-August 4, TuTh 11:00am-2:00pm, Ms Joyce-Bird, Lab Fee: $20.00, Sched No 711556

Biol 209
Medical Microbiology
An introduction to viruses, bacteria, fungi, and protozoa which may be pathogenic to humans and animals; and to immunology, epidemiology, and clinical microbiology. The laboratory introduces sterile techniques, maintenance of pure cultures, isolation, identification, and immunological methods. Note: This course is for nursing majors. Biology majors should take Biol 334 for microbiology.
Prerequisites: Biol D111; Chem D103 and D104, or Chem D107 and D108, or equivalent.
Evening
Lect: July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/1/608, Ms Emmett, Sched No 711756, 4 Credits
Lab: July 18-August 25, MW 2:00-5:00pm, Staff, Lab Fee: $40.00, Sched No 711801
Lab: July 18-August 25, TuTh 6:00-9:00pm, Staff, Lab Fee: $40.00, Sched No 711851

Biol 302
Histology
A survey of the structure and organization of tissues and organ systems, primarily of mammals. Cellular physiology will be considered as it relates to structure, ultrastructure, and staining characteristics.
Prerequisite: Biol E211.
Morning
Lect: May 31-July 13, MTuWThF 8:00-9:30am, Harbor Campus S/2/064, Ms Harrison, Sched No 712055, 4 Credits
Lab: May 31-July 13, MTuWTh 9:45-11:45am, Ms Harrison, Lab Fee: $25.00, Sched No 712100

Special Program: Marine Biology on Nantucket Island

May 31-August 5

Every summer the Biology Department of UMass/Boston offers a small program of courses at the University's Field Station in Quaise. Students admitted to these courses will be housed at the Field Station, located on 114 acres of moor and private beach about four miles from the town of Nantucket. Students interested in these courses should contact Dr. John Ebersole of the Biology Department, at 617 929-8400. Application deadline: April 29, 1988

Biol 200
Field Biology on Nantucket: Coastal Ecology

Investigations into the natural history and community dynamics of salt marshes, seagrass beds, mudflats, and beaches Field exercises on the adaptations and interactions of marine organisms are emphasized
Prerequisite: Permission of instructor.
May 31-July 1 By Arrgt, Nantucket, Mr Shiaris, Mr Etter. Ms Hartman, Lab Fee: $10.00, Sched No 711017, 5 Credits

Biol 346
Marine Ecology

The organisms of marine and coastal habitats and their adaptations to the physiochemical parameters of marine environments. The structure and function of marine communities and ecosystems. Laboratory and field work
Prerequisites. Biol E211 and E252 or permission of instructor.
July 5-August 5 By Arrgt, Nantucket, Mr Eveleigh, Lab Fee: $10.00, Sched No 712166. 5 Credits

Chemistry

Chem D103
Chemical Principles I

Introduction to the fundamental principles of chemistry including stoichiometry, elementary thermodynamics, atomic and molecular structure, bonding theories, and the periodic table. Laboratory work presents an introduction to quantitative analytical techniques. This course consists of three parts — lecture, laboratory, and discussion — all of which must be taken concurrently.
Core Area: Natural Sciences.
Morning
Lect: May 31-July 13, MTuWTh 10:00-11:15am, Harbor Campus S/1/006, Staff, Sched No 712700, 4 Credits
Disc: May 31-July 13, Tu or W or Th 11:30am-12:20pm, Harbor Campus S/1/006; Assignments will be made at the first class meeting. For information call 929-7548.
Lab: May 31-July 13, MW 12:30-3:30pm, Harbor Campus S/2/039, Staff, Lab Fee: $45.00, Sched No 712805
Lab: May 31-July 13, TuTh 12:30-3:30pm, Harbor Campus S/2/039, Staff, Lab Fee: $45.00, Sched No 712855
Evening
Lect: May 31-July 13, MTuWTh 5:30-6:45pm, Harbor Campus S/1/006, Staff, Sched No 712750, 4 Credits
Disc: May 31-July 13, W 7:00-7:50pm, Harbor Campus S/1/006, Sched No 713104
Lab: May 31-July 13, TuTh 7:00-10:00pm, Harbor Campus S/2/039, Lab Fee: $45.00, Sched No 712900

Chem D104
Chemical Principles II

Introduction to states of matter and kinetic molecular theory, acids and bases, chemical kinetics, aqueous equilibria, oxidation-reduction, and a survey of the chemical properties of selected elements based on principles already introduced.
Prerequisite: Chemistry D103.
Core Area: Natural Sciences.
Morning
Lect: July 18-August 25, MTuWTh 10:00-11:15am, Harbor Campus S/1/006, Staff, Sched No 713304, 4 Credits
Disc: July 18-August 25, Tu or W or Th 11:30am-12:20pm. Harbor Campus S/1/006; Assignments will be made at the first class meeting. For information call 929-7548
Lab: July 18-August 25, MW 12:30-3:30pm, Harbor Campus S/2/039, Staff, Lab Fee: $45.00, Sched No 713409
Lab: July 18-August 25, TuTh 12:30-3:30pm, Harbor Campus S/2/039, Staff, Lab Fee: $45.00, Sched No 713459
Evening
Lect: July 18-August 25, MTuWTh 5:30-6:45pm, Harbor Campus S/1/006, Staff, Sched No 713354, 4 Credits
Disc: July 18-August 25, W 7:00-7:50pm, Harbor Campus S/1/006, Sched No 713704
Lab: July 18-August 25, TuTh 7:00-10:00pm, Harbor Campus S/2/039, Staff, Lab Fee: $45.00, Sched No 713504

Chem D107
Introduction to Chemistry I

A survey of the theoretical principles of general inorganic chemistry. Topics include atomic and molecular structure, bonding, chemical reactions, solution, pH, stoichiometry and radiochemistry.
Core Area: Natural Sciences.
Morning
Lect: May 31-July 13, MTuWTh 9:00-10:15am, Harbor Campus M/2/423, Staff, Sched No 713904, 4 Credits
Disc: May 31-July 13, Th 10:30-11:20am, Harbor Campus M/2/423, Sched No 714003
Lab: May 31-July 13, MW 10:30am-12:30pm, Harbor Campus, Staff, Lab Fee: $35.00, Sched No 713954

Chem D108
Introduction to Chemistry II

A brief survey of organic and biological chemistry. Topics include: structure, nomenclature, and the nature of organic compounds. Emphasis is on preparation for biological applications. Carbohydrates, lipids, proteins, and nucleic acids are introduced. The structures and metabolism of important biochemical molecules are considered.
Prerequisite: Chem D107.
Core Area: Natural Sciences.
Morning
Lect: July 18-August 25, MTuWTh 9:00-10:15am, Harbor Campus M/2/423, Staff, Sched No 714203, 4 Credits
Disc: July 18-August 25, Th 10:30-11:20am, Harbor Campus M/2/423, Sched No 714308
Lab: July 18-August 25, MW 10:30am-12:30pm, Harbor Campus, Staff, Lab Fee: $35.00, Sched No 714253

Chem 253
Organic Chemistry I

An intensive survey of structure, reactions, and synthesis of the main classes of organic compounds. Laboratory illustrates the preparation, purification, and identification of organic compounds by classical and instrumental methods.
Prerequisite: Chem D104.
Morning
Lect: May 31-July 13, MTuWTh 10:00-11:15am, Harbor Campus S/2/009, Staff, Sched No 714508, 4 Credits
Disc: May 31-July 13, M or Tu or Th 11:30am-12:20pm, Harbor Campus S/2/009. Assignments will be made at the first class meeting. For information call 929-7548.
Lab: May 31-July 13, MW 1:00-4:00pm, Staff, Lab Fee: $45.00, Harbor Campus S/2/092, Sched No 714558
Lab: May 31-July 13, TuTh 1:00-4:00pm, Staff, Lab Fee: $45.00, Harbor Campus S/2/092, Sched No 714564

Chem 254
Organic Chemistry II

A continuation of Chemistry 253.
Morning
Lect: July 18-August 25, MTuWTh 10:00-11:15am, Harbor Campus S/2/009, Staff, Sched No 714908, 4 Credits
Disc: July 18-August 25, M or Tu or Th 11:30am-12:20pm, Harbor Campus S/2/009. Assignments will be made at the first class meeting. For information call 929-7548.
Lab: July 18-August 25, MW 1:00-4:00pm, Harbor Campus S/2/092, Staff, Lab Fee: $45.00, Sched No 714958
Lab: July 18-August 25, TuTh 1:00-4:00pm, Harbor Campus S/2/092, Staff, Lab Fee: $45.00, Sched No 715007

Classics

Clscs E286
Greek and Roman Comedy

The origins of Western comedy through a reading of selected works (Aristophanes and Menander: Greece; Plautus and Terence: Rome).
Morning
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus M/1/428, Staff, Sched No 715396, 3 Credits

Computer Science

Please note: All computer science (CS) courses have been recently renumbered by the Department of Mathematics and Computer Science. Their former codes and numbers are indicated in parentheses. For further information contact the Department.

CS D110P
(Formerly Math D137P)
Introduction to Computing: Pascal

An introduction to computer programming — the concepts involved in use of a higher level language and in the program development process. The goal of this course is proficiency in the design and implementation of programs of significant size and complexity. This course is quite demanding because of the length of the programming exercises assigned. This is the first course in the computer science sequences. CS D110 is taught using one of two programming languages, Pascal and FORTRAN-77. CS D110P (Pascal) is appropriate for prospective majors. CS D110F (FORTRAN) is appropriate for some pre-engineering students, who should consult the Engineering Program for course selection advice.
Note: Students who have taken CS D110P (Pascal) will not be granted credit for CS D110F (FORTRAN).
Note: The fee for this four-credit course is $285.
Prerequisite: Math Diagnostic Test.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 28, MTuTh 10:-11:30am, Harbor Campus W/1/056, Staff, Lab Fee: $10.00, Sched No 721254, 4 Credits
Evening
May 31-July 28, MTuTh 7:45-9:15pm, Harbor Campus W/2/127, Staff, Lab Fee: $10.00, Sched No 721260, 4 Credits

CS D210
(Formerly Math D138)
Intermediate Computing With Data Structures

Continuation of CS D110P. Topics include modularity, text files, input parsing, dynamic data structures; lists; pointers; queues; stacks; recursive algorithms; recursive data structures; trees, searching and sorting; software engineering methodology; optional topics as time permits.
Note: The fee for this four-credit course is $285.
Prerequisite: CS D110P (Math D137P) or permission of instructor.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 28, MTuTh 8:15-9:45am, Harbor Campus W/1/062, Staff, Lab Fee: $10.00, Sched No 721509, 4 Credits

CS 320
(Formerly Math 330)
Applied Discrete Mathematics

An introduction to the mathematical structures used in computing: sets, mathematical induction, ordered sets, Boolean algebras, predicate calculus, trees, relations and lattice theory, formal theory of languages, automata theory, finite fields, error-correcting codes. Proofs of theorems about these structures are constructive (algorithmic). Applications to computing are discussed.
Prerequisites: CS D210 (Math D138), Math D141, and Math 260; or permission of instructor.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/060, Staff, Sched No 721709, 3 Credits

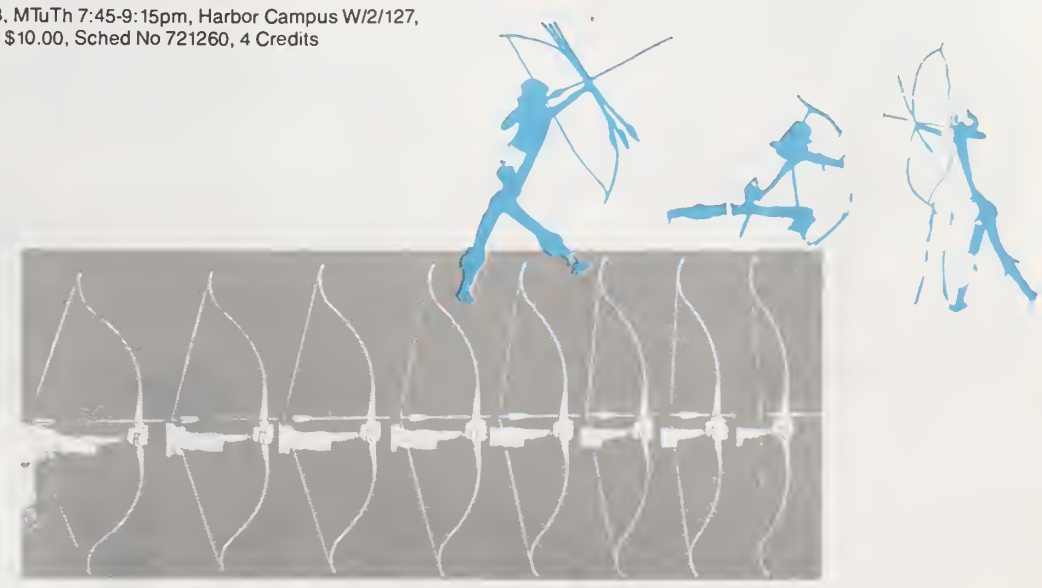
Economics

Econ E101
Introductory Economics I

A broad introductory survey in which special attention is given to the role of economic principles in analyzing and understanding current economic problems. Emphasis is placed on the functioning of markets and on examining the behavior of individual economic units such as the business firm and the consumer (microeconomics). Other areas of emphasis vary from section to section and may include industrial organization, income distribution, international trade, economics of the environment, and other topics. (May be taken after Econ E102.)
Prerequisite: Math D110 or equivalent.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/054, Mr Potepan, Sched No 722303, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/054, Mr Millman, Sched No 722503, 3 Credits
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/054, Mr Cotton, Sched No 722353, 3 Credits
May 31-July 13, MW 1:30-4:30pm, Harbor Campus W/1/054, Mr Gershenberg, Sched No 722408, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/054, Mr Walker, Sched No 722458, 3 Credits
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/061, Staff, Sched No 722553, 3 Credits

Econ E102
Introductory Economics II

A broad introductory survey in which special attention is given to the role of economic principles in analyzing and understanding current economic problems. Emphasis is placed on examining the overall functioning of the economy and on dealing with such matters as unemployment, inflation and recession. Other areas of emphasis vary from section to section and may include economics of government spending and taxation, economic development, alternative economic systems, and other topics. (May be taken before Econ E101.)
Prerequisite: Math D110 or equivalent.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/061, Mr Cotton, Sched No 722753, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/054, Mr Millman, Sched No 722903, 3 Credits
Midday/Afternoon
May 31-July 13, TuTh 1:30-4:30pm, Harbor Campus W/1/054, Mr Donovan, Sched No 722808, 3 Credits
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/054, Mr Morrison, Sched No 722953
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/061, Mr Donovan, Sched No 722858, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus W/1/054, Mr Martin, Sched No 723002, 3 Credits



Try some straight shooting! See PE 161, Archery, on page 13.

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Econ 201
Economic Theory I, Microeconomics
Analysis of consumer behavior, the theory of production equilibrium of the firm and the industry, market structures and the pricing of factors of production.
Prerequisite: Econ E101.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/2/124, Mr Martin, Sched No 723202, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/054, Mr Abdullah, Sched No 723307, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/054, Mr Walker, Sched No 723252, 3 Credits

Econ 202
Economic Theory II, Macroeconomics
Analysis of the forces determining the level and structure of gross national output, and those government policies which attempt to affect economic activities in the United States.
Prerequisites: Econ E101 and E102.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/054, Mr Martin, Sched No 723507, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/054, Mr Martin, Sched No 723557, 3 Credits

Econ 205
Statistical Methods
A non-calculus introduction to statistical inference. A primary objective is to familiarize the students with common statistical concepts so they will be able to make intelligent evaluations of technical reports. The first half of the course covers probability, including common distributions. The second half studies hypothesis testing, including T-Tests, goodness of fit, contingency tables, analysis of variance, regression, and correlation.
Prerequisite: Math D124 (or placement into Math D130) and Economics E101 or E102.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/052, Mr Chiong, Sched No 723757, 3 Credits

Econ C213
Urban Economics
An economic analysis of urban areas and urban problems. Provides an economic explanation of the growth of cities and metropolitan areas together with an understanding of the forces that determine the location, form, and economic structure of cities. A number of contemporary problems are studied in depth. A political-economic analysis is applied to such problems as the property tax, housing and urban renewal, poverty, crime and transportation.
Prerequisites: Econ E101 or E102.
Core area: Social and Behavioral Sciences.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/061, Mr Potepan, Sched No 722103, 3 Credits

Econ 331
Money and Financial Institutions
An economic analysis of financial institutions and markets in the American economy. Institutional and economic factors in the determination of the money supply are studied. Included are the commercial banking system and the money and capital markets. Policy making, both formulative and implementative, by the central bank is emphasized. Current policy issues are debated.
Prerequisites: Econ E101 and E102.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/061, Mr Abdullah, Sched No 724006, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/2/124, Mr Abdullah, Sched No 723957, 3 Credits

Econ 335
International Economics
The theory of international trade; theory and practice of commercial policy; international finance: the balance of payments, adjustment mechanisms, and alternative monetary systems.
Prerequisites: Econ E101 and E102.
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/061, Mr Hussain, Sched No 724256, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/061, Mr Gershenberg, Sched No 724206, 3 Credits

Econ 417
Public Finance
The incidence and effects of taxation, government expenditure programs, and public debt operations of federal, state, and local governments.
Prerequisite: Econ 202; or Econ 201 and E102.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/061, Mr Abdullah, Sched No 724456, 3 Credits

Engineering

Engin 103
Introduction to Engineering
A basic introduction to the various fields of engineering. Required of all freshmen engineering majors.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/004, Staff, Sched No 729806, 3 Credits

Engin 200
Systems Analysis I
(Electrical Engineering)
Physical characteristics and mathematical models of system elements; techniques for writing and solving system dynamic equations, with application to electronic circuits and other types of systems.
Prerequisite: Sophomore standing, engineering major.
Morning
May 31-July 13, MTuWThF 10:00-11:15am, Harbor Campus S/2/065, Staff, Sched No 730003, 3 Credits

Engin 201
Digital Systems Theory
(Electrical Engineering)
An introduction to the theory of digital circuits stressing general techniques for the analysis and synthesis of combinational and sequential logic systems.
Note: Students taking Engineering 201 cannot receive credit for Physics 374.
Prerequisite: Sophomore standing, engineering major.
Morning
May 31-July 13, MTuWThF 8:30-9:45am, Harbor Campus S/2/065, Staff, Sched No 730203, 3 Credits

Engin 211
Systems Analysis II
Concepts relating to transfer functions; digital and analog solutions of system equations, time and frequency domain analysis techniques with use of the Laplace transformation.
Prerequisite: Engin 200.
Morning
July 18-August 25, MTuWThF 10:00-11:15am, Harbor Campus S/2/065, Staff, Sched No 730403, 3 Credits

Engin 212
Active Networks I
Active network theory, biasing, device models and linear equivalent circuits; multistage feedback, tuned and power amplifiers; power supplies, regulators and active switches.
Prerequisite: Engin 200.
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus S/2/066, Staff, Sched No 730603, 3 Credits

Engin 271
Circuit Analysis Laboratory
An introductory electrical measurements and linear circuit analysis laboratory to accompany the first semester sophomore-level electrical engineering courses. Topics include voltage and current division, Thevenin's Theorem, operational amplifiers, first order circuits, second order circuits, and phase measurements.
Prerequisite or corequisite: Engin 200 or permission of the instructor.
Midday/Afternoon
Lab: May 31-July 13, W 12:00noon-2:30pm, Lab Fee: $10.00, Sched No 730803, 1 Credit

Engin 272
Active Circuits Laboratory
An electrical measurements laboratory to accompany the second semester sophomore-level electrical engineering courses: Systems Analysis II and Active Networks I. Topics include power and phase measurements, frequency response, transformers, Fourier series, transistor configurations, digital circuits.
Prerequisite: Engin 271; prerequisites or corequisites: Engin 211 and Engin 212, or permission of the instructor.
Midday/Afternoon
July 18-August 25, W 12:00noon-2:30pm, Lab Fee: $10.00, Sched No 731007, 1 Credit

Engin 282
Active Networks Laboratory I
An electronics laboratory to accompany the second semester sophomore level electrical engineering course, Active Networks I (Engin 212). Topics: Diode and transistor circuits, operational amplifiers and linear IC, power supplies, resistors, and active switches.
Prerequisite: Engin 271.
Corequisite: Engin 212.
Evening
Lab: July 18-August 25, W 6:00-9:00pm, Lab Fee: $15.00, Sched No 731207, 1 Credit

English

Note: Freshman English (English 101 and 102) is prerequisite for all English courses above the 100 level. For non-majors, one 200-level English course is prerequisite for all 300- and 400-level English courses. These requirements may be modified or waived for certain courses; see the following course descriptions for such changes. The student who is strongly motivated to take a course for which he or she has not satisfied the prerequisites should contact the instructor for advice and permission.

Engl 101
Freshman English I
Small class instruction and practice in grammar, rhetoric, and the articulation of logical thought. Practice in writing for college courses on various kinds of topics, many from experience and observation, chosen to develop the student's confidence and ability. Readings and materials vary from section to section, but all sections require a minimum of eight 600-word papers.
Note: This course satisfies the first half of the College of Arts and Sciences writing requirement.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/012, Ms C. Davis, Sched No 727153, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/012, Ms Gottfried, Sched No 727258, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/029, Ms De Alba, Sched No 727208, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus W/1/029, Ms De Alba, Sched No 727303, 3 Credits

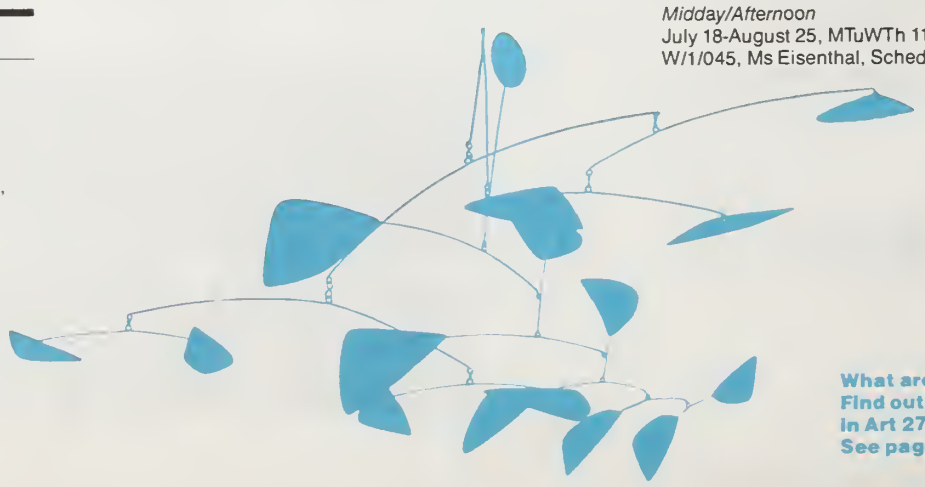
Engl 102
Freshman English II
Continuation of Engl 101, with emphasis on topics and writing assignments of the kinds encountered in many types of college courses. Readings and materials vary from section to section, but all sections require a minimum of seven papers, including a longer research paper.
Note: This course satisfies the second half of the College of Arts and Sciences writing requirement.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/012, Ms Rhodes, Sched No 727753, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/012, Ms Fattori, Sched No 727858, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/037, Ms Morrissey, Sched No 727808, 3 Credits
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/029, Ms Gottfried, Sched No 727903, 3 Credits

Engl 106
Oral Communication
The course focuses on improvement of interpersonal, small group, and public communication skills. Through readings, journals, class discussions, and other activities, we explore self-concept and perception, listening and responding, language and non-verbal behaviors, interviewing, problem-solving and decision-making, formal elements of speech-making, and the evaluating of one's own and others' public messages.
Midday/Afternoon
May 31-July 13, MW 11:45am-2:45pm, Harbor Campus M/2/621, Mr Armstrong, Sched No 728357, 3 Credits
July 18-August 25, TuTh 1:30-4:30pm, Harbor Campus M/2/616, Mr Armstrong, Sched No 728452, 3 Credits

Engl C130
Introduction to the Art of Literature
Fiction, poetry, drama, essays — what they are and what they mean. An introduction to ways of seeing and understanding literature — its genres, its forms, its styles, its methods and meanings. We explore the common ground between literature and the other arts, while keeping in view the crucial differences.
Core Area: The Arts.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/032, Mr Nelson, Sched No 725850, 3 Credits

Engl C201
Five Major British Writers
Representative works by five of the most important writers from the fourteenth to the nineteenth century, studied as introductions to philosophical and humanistic studies, explored as reflecting and shaping the leading ideas, assumptions, and values of their ages. Works by Chaucer, Shakespeare, and other authors such as Milton, Swift, and Austen, with films and background lectures on the philosophical and historical contexts of the works and their authors. Instruction in analytical reading and writing will be provided.
Core Area: Philosophical and Humanistic Studies.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/044, Mr Hurley, Sched No 726054, 3 Credits

Engl C204
The Nature of Literature: Fiction
An introduction to various critical approaches to the understanding and appreciation of fiction. Close reading of short stories and novels with special attention to the language and forms of fiction, as well as the writing of critical and interpretive papers. Comparison of fiction both to the visual arts (e.g., point of view, setting, imagery) and to music (e.g., prose rhythm, duration, thematic repetition, and variation). Attention to developing a sense of the milieu in which an artist works.
Core Area: The Arts.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/044, Mr Divver, Sched No 726309, 3 Credits
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/045, Ms Eisenthal, Sched No 726315, 3 Credits



What are these things?
Find out (and explore the world of sculpture) in Art 275, Visual Fundamentals II.
See page 6.

Engl E206
Six American Authors
The achievements of American literature in articulating the American mind will be illustrated by works from some well-known American writers — Thoreau, Dickinson, Faulkner, for example — as well as from those who deserve to be better known, such as Frederick Douglass, Kate Chopin, Zora Neale Hurston.
Core Area: The Arts.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/045, Ms Ollen, Sched No 726759, 3 Credits

Engl C210
Introduction to Creative Writing
An introduction to the arts through the medium of writing as well as reading poetry, fiction, and drama. Student writing will be submitted weekly and discussed in class.
Prerequisite: Completion of freshman writing requirement.
Core Area: The Arts.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/045, Ms H. Davis, Sched No 726559, 3 Credits
Midday/Afternoon
May 31-July 13, TuTh 1:30-4:30pm, Harbor Campus W/1/012, Ms Mavro, Sched No 726509, 3 Credits

Engl E215
Intermediate Composition
A composition course offering continued practice in expository and argumentative writing. Emphasis is on the development of rhetorical concepts (definition, exemplification, comparison, and others) for both analytic and compositional purposes: both for critical reading and for the organization and development of papers. Readings will be short, complex passages representative of the kinds of discourse met in college classes and texts.
Core Area: The Arts.
Morning
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/032, Ms Fattori, Sched No 726921, 3 Credits
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/010, Mr Rhodes, Sched No 726915, 3 Credits

Engl 300
Creative Writing Tutorial
Techniques and forms of fiction, poetry, and drama, conducted chiefly in tutorial conferences. Frequent discussion of student manuscripts.
Prerequisites: Completion of freshman writing requirement and permission of instructor.
Midday/Afternoon
July 18-August 25, TuTh 1:30-4:30pm, Harbor Campus W/1/020, Mr Richer, Sched No 728652, 3 Credits

Engl 330
Short Novel
Through reading of representative short novels, the course attempts to define the differences among the short story, the novel, and the novella or short novel. Generalizations about the similarities and differences between these genres and poetry and drama are considered. The course includes the study of novels by such writers as Tolstoy, James, Conrad, Porter, Roth, Faulkner, Wright, and Camus.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/056, Mr Divver, Sched No 728713, 3 Credits

Engl 334
Science Fiction
A survey of science fiction beginning with Mary Shelley's Frankenstein and H.G. Wells's *The Time Machine*. The course goes on to consider early 20th century science fiction, "golden age" science fiction (the 1950's), New Wave science fiction, and feminist science fiction. Though its focus is on science fiction in England and America, it also looks at some science fiction from France, Poland, the Soviet Union, Germany and Czechoslovakia. Discussions also focus on the connections and differences between science fiction literature and science fiction film. Specific topics include technology, images of women, utopia and dystopia, aliens and humans, and the image of the scientist.
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus W/1/061, Ms Haire-Sargent, Sched No 728757, 3 Credits

Engl 369
Contemporary American Fiction
A survey of American fiction since 1950. Works by Baldwin, Bellow, Betts, Gaines, Kelley, Mailer, Malamud, Oates, Olsen, Percy, Reed, Updike, Vonnegut, Wright and others.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/044, Ms Saunders, Sched No 728852, 3 Credits

Engl 375
Children's Literature
The study of literature for children, including criticism and the history of the development of literary materials written specifically for children. The works studied — by such authors as Lewis, Grahame, Wilder, and Milne — will be explored in the context of the historical and cultural settings in which they were produced, and the texts will be analyzed both as works of art and as instruments of cultural and didactic impact.
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/032, Ms Gane, Sched No 729151, 3 Credits

Engl 382
Shakespeare I
Shakespeare's comedies, history plays, and early tragedies largely from the first half of Shakespeare's career. The course emphasizes critical interpretations of individual plays, but it attempts as well to review Shakespeare's dramatic art in general, theatre history and conventions, theory of comedy and theory of tragedy, the language of verse drama, and the development of the history play.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/062, Mr Goodale, Sched No 729212, 3 Credits

Engl 399
Comparative Readings in Two Novelists
Comparative study of the fiction of major English and American novelists whose works have social and thematic affinities or present interesting problems of contrast. For the summer, 1988 semester, the course focuses on the novels of Nathaniel Hawthorne and Herman Melville, exploring several major works by each author.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/032, Staff, Sched No 729240, 3 Credits

Engl 412
Women and Men in 19th Century Literature
A study of men and women and their relationships in nineteenth century literature, mainly British, with special emphasis on the issues of masculine and feminine sexual identity and sexual stereotypes, and the social position of men and women as these are treated in popular culture and in serious literary works.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/032, Staff, Sched No 729373, 3 Credits

Engl 481
British and American Detective Fiction
The course traces the development of detective fiction as a literary form and as a reflection of cultural attitudes toward politics, economics, race, and gender; its origins in the self-destructive mysticism of Poe, Wilkie Collins, and Arthur Conan Doyle; the aristocratic nostalgia of Dorothy Sayers, Agatha Christie, and Jane Langdon; the tough-guy fascistic posing of Dashiell Hammett and Raymond Chandler; and the feminism and depth psychology of P.D. James and Sara Paretsky.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/062, Ms Haire-Sargent, Sched No 729290, 3 Credits

English as a Second Language

Engl 101E
Freshman English I
Practice in writing on various kinds of topics chosen to develop students' confidence and ability as writers. Readings and materials vary from section to section, but all sections require a minimum of seven papers. This special ESL section of Freshman Composition is designed to meet the specific needs of ESL students. In particular, the course emphasizes English syntax from a non-native point of view. For bilingual students only.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/045, Staff, Sched No 727503, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/044, Staff, Sched No 727553, 3 Credits

Engl 102E
Freshman English II
Continued practice in writing on various topics with an emphasis on more difficult readings, using the library and research skills. Students again write about seven papers, including one research paper. Attention is given to English grammar from a non-native point of view. For bilingual students only.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/044, Staff, Sched No 728107, 3 Credits
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/044, Staff, Sched No 728157, 3 Credits

French

French D101
Elementary French I
Intensive practice in the four language skills, with an audio-lingual approach, for students who have no creditable training in French. Core Area: Foreign Languages.
Morning
Lect: May 31-June 30, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/420, Staff, Sched No 731607, 4 Credits
Lab: May 31-June 30, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 731657

French D102
Elementary French II
A continuation of French D101. Intensive practice in the four language skills, with an audio-lingual approach, for students who have completed French D101 or its equivalent.
Core Area: Foreign Languages.
Morning
Lect: July 5-August 4, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/420, Staff, Sched No 731857, 4 Credits
Lab: July 5-August 4, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 731902

French D201
Intermediate French I
Intensive review and further study of grammar and audio-lingual skills with correlated intermediate-level readings in French literature or culture.
Prerequisite: French D102, D115 or equivalent.
Core Area: Foreign Languages.
Morning
Lect: May 31-June 30, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/624, Staff, Sched No 732106, 4 Credits
Lab: May 31-June 30, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 732156

French D202
Intermediate French II
Continuation of French D201. Intermediate-level readings in French literature or culture. This course may be used to fulfill the second semester of the intermediate-level language requirement.
Prerequisite: French D201 or equivalent.
Core Area: Foreign Languages.
Morning
Lect: July 5-August 4, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/624, Staff, Sched No 732356, 4 Credits
Lab: July 5-August 4, MTuWTh 12:45-1:30pm, Lab Fee: $10.00, Sched No 732401

French 301
Traduction et Stylistique
Intensive study of grammar, stylistics and composition. Problems of idiomatic translation based on contemporary English and American texts. Emphasis is on oral communication.
Prerequisite: French D202 or equivalent or permission of instructor.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/1/420, Ms Sorenson, Sched No 732601, 3 Credits

Geography and Earth Science

GES D225
Weather and Climate
Atmospheric processes forming the basis for weather patterns and climatic development on a global scale. Major topics include earth-sun relationships, heating and cooling of the atmosphere, atmospheric circulation, pressure patterns, air mass formation and frontal systems, vertical zonation of climate, and the Koppen System for evaluating and classifying climatic phenomena.
Prerequisite: Sophomore standing.
Core Area: Natural Sciences.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus S/2/065, Mr Mensoian, Sched No 734104, 3 Credits

GES 249
World Regional Geography
An analysis of physical and human geographic factors, including landforms, climate, soils, resources, population, and other factors where appropriate, in selected world regions. Major world regions are discussed with respect to the interactions between human beings and their environment. Each region is studied in order to develop ideas about major physical and human geographic principles or relationships.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus S/2/065, Mr Mensoian, Sched No 734926, 3 Credits

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Special Program: Fox Point Marine Institute

The Department of Geography and Earth Science has developed a special summer program combining classroom, laboratory, and field work on the research vessel Enviro-Lab to investigate shallow water oceanography in Boston Harbor. Participants will discuss our society's impact on physical resources and recreational environments, and perform temperature, pressure, and salinity experiments. Other activities include the collection and testing for coliform pollution of bottom sediment samples, and the observation of marine life collected from the Enviro-Lab's stern trawl and plankton nets.

Students may enroll in as many of the following Institute-related courses as their own schedules permit. GES D105, D226, and D227 are all core courses meeting specific requirements for UMass/Boston CAS students, though they are also open to other students. For more information on core requirements see Summer Admission, page 2.

Please note: Space in these courses is limited because of capacity restrictions on the Enviro-Lab. Register early.

GES D105
Earth Science I

An introduction to geoscience, integrating such fields as geology, meteorology, oceanography, and physical geography. Emphasis is placed on understanding geophysical processes of importance to human beings and their environment. Topics include the origin of the earth, energy and material resources, earthquakes, volcanism, tides, glaciation, atmospheric behavior, climate, and the environmental impact of technology.
Corequisite: GES 107
Core Area: Natural Sciences
Note: the fee for this special three-credit course is $250.
Midday/Afternoon
July 5-July 28, MTuWThF 11:15am-1:15pm, Harbor Campus S/2/062, Mr Looney, Sched No 733661, 3 Credits

GES 107
Earth Science Laboratory I

A laboratory course designed to accompany GES D105. Basic experiments include examination of minerals, rocks, and fluid earth materials; analysis of sedimentary processes and weathering; study of diverse geological processes using topographical and geological maps; aerial maps and photographs; field trips.
Corequisite: GES D105.
Midday/Afternoon
July 6-July 27, W 1:30-4:45pm, Mr Looney, Sched No 734665, 1 Credit

GES D226
Physical Oceanography

The development of oceanography as a science. An introduction to the early contributors to oceanography as well as to the evolution of vessels for oceanographic research, and to methods and techniques in physical oceanography. Discussion of geological setting and plate tectonics as this theory affects other areas of oceanography. The study of coastal processes and their effect on the coast, especially as a consequence of the Blizzard of 1978. The course concludes with a consideration of the origin of sea water, its movements (currents, tides, waves, etc.), and its composition.
Prerequisite: Sophomore standing or permission of instructor.
Core Area: Natural Sciences
Note: the fee for this special three credit course is $250.
Morning
August 1-August 24, MTuWThF 9:00-11:00am, Harbor Campus S/2/062, Mr Looney, Sched No 734265, 3 Credits

GES D227
Marine Resources

Major emphasis on the commercial invertebrates and vertebrates (mainly fish) with respect to their distribution, methods of catching, and commercial values. Minerals, energy, and transportation are also examined as marine resources. In summer, 1988, topics will include marine transportation, maritime law, off-shore oil, minerals derived from the sea, and the fishing industry. On-water experiments involving fin fish and shell fish will be undertaken.
Prerequisite: Sophomore standing or permission of instructor.
Core Area: Natural Sciences.
Note: The fee for this special three-credit course is $250.
Morning
July 5-July 28, MTuWThF 9:00-11:00am, Harbor Campus S/2/062, Mr Looney, Sched No 734465, 3 Credits

GES 480
Boston Harbor Estuarine Geography

This course focuses on estuarine typology, circulation, sediments, beaches and other physical factors, as well as on contrasting life forms in different parts of the Boston Harbor estuary, from the shore to deeper water environments.
Note: the fee for this special three-credit course is $250.
Midday/Afternoon
August 1-August 24, MTuWThF 11:15am-1:15pm, Harbor Campus S/2/062, Mr Looney, Sched No 734960, 3 Credits

German

Ger D101
Elementary German I

For students with no creditable training in German. Work in the four language skills.
Core Area: Foreign Languages.
Morning
Lect: May 31-June 30, MTuWTh 8:15-10:45am, Harbor Campus M/2/415, Staff, Sched No 733005, 4 Credits
Lab: May 31-June 30, MTuW 11:00-11:45am, Lab Fee: $10.00, Sched No 733055

Ger D102
Elementary German II

Continuation of Ger D101.
Core Area: Foreign Languages.
Morning
Lect: July 5-August 4, MTuWTh 8:15-10:45am, Harbor Campus M/2/415, Staff, Sched No 733255, 4 Credits
Lab: July 5-August 4, MTuW 11:00-11:45am, Lab Fee: $10.00, Sched No 733300

History

Hist C101
The Individual In History

This course examines the part played by outstanding personalities in history. Was their success due to their ability to shape events? Or due merely to favorable historical circumstances? Focus is on famous individuals associated with major developments in modern history, such as Luther, Elizabeth, Peter the Great, Napoleon, Lenin.
Core Area: Historical and Cultural Studies.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/417, Mr Hull, Sched No 735508, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus M/2/417, Mr Hull, Sched No 735558, 3 Credits

Hist E111
Foundations of Western Civilization

After a brief survey of the ancient world, the course traces the political, economic, and cultural development of Western society from the early Middle Ages to 1715. Emphasis is given to the critical analysis of primary sources.
Core Area: Historical and Cultural Studies.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus M/2/417, Mr Callanan, Sched No 735958, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/2/417, Mr Pokorny, Sched No 736007, 3 Credits

Hist E112
Modern Western Civilization

This course traces the major political, economic, and cultural changes which have shaped Western society from the Enlightenment to the present. Special attention is given to the critical analysis of primary source materials.
Core Area: Historical and Cultural Studies.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus M/2/417, Mr Bookbinder, Sched No 736207, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/2/417, Ms Brink, Sched No 736257, 3 Credits

Hist C114
Modern World History II

History of modern Western industrial societies and the non-Western world, from 1800 to the present.
Core Area: Historical and Cultural Studies.
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/2/417, Mr Pokorny, Sched No 735758, 3 Credits

Hist E265
American History I

Introduces students at the intermediate level to the study of American history before 1877. Subject matter encompasses virtually all aspects of American society, and the interrelationship among social structure, economic development, everyday life, culture, and formal politics is explored throughout the course. Special attention is given to the nature of historical inquiry. Prerequisite: Sophomore standing or permission of instructor.
Core Area: Historical and Cultural Studies.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/2/417, Mr Callanan, Sched No 736457, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/1/417, Mr Conroy, Sched No 736502, 3 Credits

Hist E266
American History II

A survey of American history from 1877 covering the nature of American social structure, economic development, everyday life, culture, and formal politics. Special attention is given to the nature of historical inquiry.
Prerequisite: Sophomore standing or permission of instructor.
Core Area: Historical and Cultural Studies.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus M/2/621, Staff, Sched No 736702, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/1/417, Mr Chu, Sched No 736752, 3 Credits

Hist 478
Terrorism in the Twentieth Century

This course studies the phenomenon of terrorism by considering twentieth-century political movements that have used or are using terror to achieve their objectives. The course develops an analytical framework for the study of terrorism and uses this framework in exploring the historical backgrounds, objectives, ideologies, tactics, and membership profiles of selected groups, and in considering the responses of their opponents. Groups to be studied include the I.R.A., the Irgun, the P.L.O., the Baader-Meinhof, and the Ku Klux Klan.
Prerequisite: Junior standing or permission of instructor.
Midday/Afternoon
July 18-August 25,MTuWTh 11:45am-1:15pm, Harbor Campus M/2/417, Mr Bookbinder, Sched No 737156, 3 Credits

Italian

Ital D101
Elementary Italian I

For students who have no creditable training in Italian; intensive practice in the four language skills, with an audio-lingual approach.
Core Area: Foreign Languages.
Morning
Lect: May 31-June 30, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/421, Staff, Sched No 738750, 4 Credits
Lab: May 31-June 30, By Arrgt., Lab Fee: $10.00, Sched No 738805

Ital D102
Elementary Italian II

Continuation of Ital D101.
Prerequisite: Ital D101 or equivalent.
Core Area: Foreign Languages.
Morning
Lect: July 5-August 4, MTuWTh 10:00am-12:30pm, Harbor Campus M/2/421, Staff, Sched No 739009, 4 Credits
Lab: July 5-August 4, By Arrgt., Lab Fee: $10.00, Sched No 739059

Labor Studies

LS 160
Introduction to Labor History and the American Labor Movement

Examines the work experience (wages, hours, conditions) in different eras from colonial times to the present; such forms of collective organization as unions and political parties; the nature of social class and class consciousness; the formation of and changes in working-class ideology; sources of cleavage such as ethnicity, race, skill, and sex; and the role of working people in the making of American history.
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/2/209, Mr Salerno, Sched No 741050, 3 Credits

Latin

Lat D101
Fundamentals of Latin I

Designed to complete a standard basic textbook with Latin D102.
Core Area: Foreign Languages.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/415, Staff, Sched No 741450, 3 Credits

Lat D102
Fundamentals of Latin II

Continuation of Latin D101.
Core Area: Foreign Languages.
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/415, Staff, Sched No 741650, 3 Credits

Law and Justice

LawJus 103A
Crimes Without Victims: Prostitution, Homosexuality, and Pornography

This course examines these so-called "victimless crimes" from a philosophical and legal perspective. Its concern is with the question of whether we ought to legislate against certain types of socially disturbing activities and, if so, why. The course focuses on three major categories: prostitution, homosexuality, and pornography.
Midday/Afternoon
May 31-June 23, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/624, Mr Lott, Sched No 739459, 2 Credits

LawJus 103B
Crimes Without Victims: Gambling and Drug Abuse

This course examines these so-called "victimless crimes" from a philosophical and legal perspective. Its concern is with the question of whether we ought to legislate against certain types of socially disturbing activities and, if so, why. The course focuses on two major categories: gambling and drug abuse. Readings are from legal, philosophical, and sociological sources.
Midday/Afternoon
June 27-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/624, Mr Lott, Sched No 739659, 1 Credit

LawJus 103C
Battered Women
The legal, societal, and emotional issues of battered women are the focus of this course. Discussion of the philosophy and politics of battering, as well as the practical problems faced by battered women. A look at the social and legal remedies presently available and why their effectiveness is so limited. Discussion of how the issue of violence against women finally came to the public's attention, how society has perpetuated the myths behind battering, and how the processes which perpetuate the violence can be reversed. In addition, a look at shelters, direct action, and legal and legislative reform in this area, including controversial self-defense cases involving battered women who have killed abusive spouses or lovers.
Evening
May 31-June 23, TuTh 6:00-9:00pm, Harbor Campus M/2/624, Ms Butler, Sched No 739859, 2 Credits

LawJus 103D
Divorce and Family Law
This course examines the rapidly changing area of divorce and family law. In the last ten years, influenced in large part by the women's movement, ideas about the issues of custody, support, and property division have undergone tremendous change. Class discussion deals with the need for stronger support enforcement laws, and with the new trends toward joint custody and mediation in the area of family law. The course also examines the influence of the "new right," and the social, political, and legal issues involved in divorce.
Evening
June 28-July 12, TuTh 6:00-9:00pm, Harbor Campus M/2/624, Ms Butler, Sched No 740056, 1 Credit

LawJus 103E
The Right of Privacy
The development of what is now considered a fundamental constitutional right. The idea that began as the subject of a Law Review article has come to be viewed as the underpinning of the freedom to choose abortion and to make use of personal contraception. Through a reading of the Constitution and various Supreme Court decisions, the course will review the debate that was the primary focus of the hearing on the appointment of Robert Bork to the Supreme Court.
Evening
July 19-July 28, TuTh 6:00-9:00pm, Downtown Center 505, Mr McKean, Sched No 740084, 1 Credit

LawJus 103F
The Role of Jury Trial in American Jurisprudence
This course traces the historical roots of the right to a jury trial; it describes the role of the jury and examines historical developments through readings in the history of common law. The class serves as the jury in analyzing actual trial transcripts.
Evening
August 2-August 11, TuTh 6:00-9:00pm, Downtown Center 505, Mr McKean, Sched No 740101, 1 Credit

LawJus 103G
The Anatomy of a Trial
Starting with the distinction between a civil and a criminal case, the course traces the structure of a trial from pre-trial proceedings through opening statements, direct examination, cross-examination, objections and motions, presentation of the defense, the nature and purpose of summation. The course discusses the roles played in a trial by judge, prosecutor, defense attorney, witness, expert witness, and jury. Readings from actual trial transcripts and other works.
Evening
August 16-August 25, TuTh 6:00-9:00pm, Downtown Center 505, Mr McKean, Sched No 740123, 1 Credit

● Management

MGT 130
Introduction to Business
Familiarizes students with the nature of business and its relationship to other institutions in society. The course examines business ownership, organization, management, marketing, human resources management, production, and finance. In addition, the course explores issues of the relationship between capitalism and business, the law and business, and government and business.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/055, Staff, Sched No 745901, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45pm, Harbor Campus W/1/055, Staff, Sched No 745951, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Downtown Center 505, Staff, Sched No 746155, 3 Credits
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/019, Staff, Sched No 746200, 3 Credits

MGT 220
Ethics and Management
Examines in the first third of the course the kinds of ethical principles (e.g., justice, equality, rights and obligations, and the public interest) generally offered in justification of ethical judgments. The last two-thirds of the course is devoted to supervised independent study in which the student chooses an ethical problem in management and attempts to analyze and resolve it.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/2/198, Staff, Sched No 746400, 3 Credits
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus W/1/010, Staff, Sched No 746600, 3 Credits

Note: Any student wishing to take MGT 301, MGT 302, MGT 330, or MGT 490, 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; 3) must have completed all UMass/Boston course prerequisites or their equivalents with a C- (C minus) or better; and 4) must be in good academic standing.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services, no later than the last day of late registration, in order for the student to enroll in MGT 301, MGT 302, MGT 330 or MGT 490. Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MGT 301
Theory and Practice of Management
(See note above.)
Introduces the process of planning, organizing, directing, and controlling activities as they relate to the effective use and development of people in formal organizations. Students learn analytical tools for recognizing, diagnosing, and acting on managerial problems related to organizations, their objectives, and the development of human resources. The course emphasizes organizational analysis and design, and the analysis of effects of organizational structure on human performance.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/010, Staff, Sched No 746800, 3 Credits

MGT 302
Organizational Behavior
(See note above.)
Examines theories and research about human behavior in organizations. Through experiential learning, students analyze individual behavior, interpersonal relations, and group dynamics, all from a managerial perspective. The course also considers the options open to management in structuring human performance, as well as the value implications of personnel decisions.
Prerequisite: MGT 301.
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/010, Staff, Sched No 747004, 3 Credits

MGT 330
Business Environments and Public Policy
(See note above.)
Examines the interaction of business and government in the contemporary public process in the United States. The course helps students become familiar with the private sector's effect on the public sector as well as the public's effect on the private. The course examines how government promotes, regulates, and competes with private enterprise.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/056, Staff, Sched No 747204, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus W/1/044, Staff, Sched No 747254, 3 Credits

MGT 490
Business Policy
(See note above.)
Focuses on the organization as a whole, from a perspective that takes into account both the role of top management and the future of the organization. The course is designed to be the capstone of the student's academic career. It develops an approach for identifying the ultimate aim of the organization, exploring its external environment for opportunities and risks, and relating these to internal strengths and weaknesses. The course is required of concentrators in accounting, management of human resources, management information systems, marketing, operations management, and private financial management.
Prerequisite: Senior standing and AF 210, 211, 301, MGT 301, 302, 330, MKT 301 and MS 301.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus M/1/417, Staff, Sched No 747610, 3 Credits
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/1/428, Staff, Sched No 747626, 3 Credits

● Management Science

MS 110
Introduction to Computers In Management
Introduces students to computers and their use in information processing and decision making. Among the topics the course considers are evolution of information processing, data representation, program flowcharting, basic programming, and simple applications.
Note: The fee for this three-credit course is $220.00.
Midday/Afternoon
May 31-July 13, MW 11:45am-3:00pm, Harbor Campus W/2/124, Mr Tseng, Lab Fee: $10.00, Sched No 749252, 3 Credits
July 18-August 25, TuTh 11:45am-3:00pm, Harbor Campus W/2/124, Mr Gutierrez, Lab Fee: $10.00, Sched No 749307, 3 Credits
Evening
May 31-July 13, MW 6:00-9:15pm, Harbor Campus W/2/124, Mr Tseng, Lab Fee: $10.00, Sched No 749507, 3 Credits

MS 210
Managerial Statistics I
Provides the student with a basic knowledge of ways to reduce masses of data into a meaningful form for decision making. The course examines collection and presentation of data, frequency distributions, measures of central tendency and dispersion, probability, and probability distributions.
Note: The fee for this three-credit course is $220.00.
Prerequisite: Math 134 or Math D135.
Midday/Afternoon
May 31-July 13, TuTh 1:30-4:45pm, Harbor Campus W/2/126, Mr Papageorgiou, Lab Fee: $10.00, Sched No 749707, 3 Credits
July 18-August 25, MW 11:45am-3:00pm, Harbor Campus W/2/124, Mr Gianoukos, Lab Fee: $10.00, Sched No 749757, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:15pm, Harbor Campus W/2/125, Mr Papageorgiou, Lab Fee: $10.00, Sched No 749957, 3 Credits
July 18-August 25, MW 6:00-9:15pm, Harbor Campus W/2/124, Mr Gianoukos, Lab Fee: $10.00, Sched No 750009, 3 Credits

MS 211
Managerial Statistics II
Provides the student with additional (beyond MS 210) knowledge of statistical analysis approaches used in decision making. Topics include decision theory, bayesian statistical inference, non-parametric regression, and correlation analysis.
Note: The fee for this three-credit course is $220.00.
Prerequisite: MS 210.
Midday/Afternoon
May 31-July 13, TuTh 11:45am-3:00pm, Harbor Campus W/2/124, Ms Atac, Lab Fee: $10.00, Sched No 750209, 3 Credits
July 18-August 25, MW 1:30-4:45pm, Harbor Campus W/2/126, Mr Schiavone, Lab Fee: $10.00, Sched No 750259, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:15pm, Harbor Campus W/2/126, Ms Atac, Lab Fee: $10.00, Sched No 750459, 3 Credits
July 18-August 25, MW 6:00-9:15pm, Harbor Campus W/2/125, Mr Schiavone, Lab Fee: $10.00, Sched No 750504, 3 Credits

Math 134
Managerial Algebra and Calculus
This course is designed to provide students with mathematical literacy through mastery of basic algebra and basic calculus. Topics include functions, graphs, absolute value, linear equations, inequalities, systems of linear equations and inequalities, polynomials, exponential and logarithmic functions, limits, continuity, derivatives, summation of series, and integration. Applications will be made to managerial situations throughout the course. *For CM students only.* Students may not receive graduation credit for more than one of these courses: Math 134, Math D135, or Math D140.
Prerequisites: Placement into Math D135 on Math Diagnostic Test, or completion of Math D124, or permission of instructor.
Evening
May 31-July 13, MTuWTh 6:00-7:30pm, Harbor Campus W/1/047, Staff, Sched No 744252, 3 Credits

Who are these people? Find out in AmSt 380, The Kennedys of Boston. See page 5.

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Note: Any student wishing to take MS 301 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; 3) must have completed all UMass/Boston course prerequisites or their equivalents with a C- (C minus) or better; and 4) must be in good academic standing.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services, no later than the last day of late registration, in order for the student to enroll in MS 301.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MS 301
Operations Management
(See note above.)
Introduces the student to the design and control problems of every system that transforms inputs into outputs, with major emphasis given to the problems associated with the production function of a manufacturing organization. The course also covers operations research approaches used to solve the associated problems.
Prerequisite: MS 210.
Midday/Afternoon
May 31-July 13, MW 11:45am-3:00pm, Harbor Campus W/2/125, Mr Berman, Sched No 750704, 3 Credits
July 18-August 25, TuTh 11:45am-3:00pm, Harbor Campus W/2/125, Mr Shimshak, Sched No 750754, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:15pm, Harbor Campus W/2/125, Mr Shimshak, Sched No 750954, 3 Credits

● Marketing

Note: Any student wishing to take MKT 301, 1) must be enrolled in the College of Management at UMass/Boston or in a management degree program at another four-year college or university; 2) must have completed 60 semester hour credits; 3) must have completed all UMass/Boston course prerequisites or their equivalents with a C- (C minus)or better; 4) must be in good academic standing.

Each non-UMass/Boston student must submit, together with a registration form, a copy of a complete and current official transcript of his or her college or university record. If a non-UMass/Boston student is completing course prerequisites this term, the student must also submit verification of his or her current registration in the prerequisite course(s). This material must be reviewed and approved by the College of Management's Office of Student Services, no later than the last day of late registration, in order for the student to enroll in MKT 301.

Students wishing to register in person should telephone the Office of Student Services (929-8105) for an appointment.

MKT 301
Principles of Marketing
(See note above.)
Develops students' understanding of marketing principles underlying the selection and assessment of markets and the development and delivery of products and services.
Prerequisites: MS 110, Econ E101 and E102.
Morning
May 31-July 13, TuTh 8:15-11:30am, Harbor Campus W/2/125, Staff, Sched No 748258, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/2/124, Staff, Sched No 748458, 3 Credits

● Mathematics

Please note: Computer science course descriptions appear in this bulletin under "Computer Science." All computer science (CS) courses have been recently renumbered by the Department of Mathematics and Computer Science. Their former codes and numbers are indicated in parentheses. Math D137P is now CS D110P; Math D138 is now CS D210. For further information contact the Department.

Please note: students in any mathematics course may be required to attend one additional 50-minute discussion section per week if the enrollment in that course exceeds normal capacity.

Math Diagnosis
It is greatly to the advantage of the student to be placed in the proper course. Students are advised to consult course descriptions for prerequisites and equivalents before registering for math courses. To ensure placement in the right course, each student will be required to take a Math Diagnostic Test before being admitted to a course that requires this test as indicated in its description. This step will prevent loss of time in switching courses or obtaining refunds after classes have begun.

The test will be given during the following periods for students enrolling in summer math courses:

May 12, 11:30am-1:30pm, Harbor Campus M/3/130
May 12, 5:00-8:00pm, Harbor Campus M/3/130
May 13, 11:30am-1:30pm, Harbor Campus M/3/130
May 31, 3:00-6:00pm, Harbor Campus W/2/125
July 7, 11:30am-1:30pm, Harbor Campus W/2/127
July 7, 5:00-8:00pm, Harbor Campus W/2/125
July 18, 11:30am-1:30pm, Harbor Campus W/2/127

Math D110
Basic Algebra
For students with weak math background who want to develop skills for further math or science courses. Covers basic high school math. Topics include multiplying and factoring polynomials, linear equations and straight lines, fractional exponents and radicals, ratios of polynomials, quadratics, word problems. Generally limited to students with less than 3 years of high school math preparation.
Note: No student receives graduation credits for Math D110 if it is taken after successful completion of Math D124 or D130 or a higher math course.
Prerequisite: Math Diagnostic Test only.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/056, Staff, Sched No 742054, 3 Credits
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/046, Staff, Sched No 742109, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/046, Staff, Sched No 742204
Evening
May 31-July 13, MTuWTh 7:45-9:15pm, Harbor Campus W/1/046, Staff, Sched No 742159, 3 Credits
July 18-August 25, MTuWTh 6:00-7:30pm, Harbor Campus W/1/046, Staff, Sched No 742254, 3 Credits

Math D125
Introductory Statistics
For non-science and non-mathematics majors only. Topics include: introductory statistics, covering descriptive statistics; and inferential statistics.
Note: No student will receive graduation credits for Math D125 if it is taken after successful completion of Math 345 or 645. Not open to mathematics majors.
Prerequisite: Math Diagnostic Test or Math D110.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/047, Staff, Sched No 742454, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/046, Staff, Sched No 742509, 3 Credits

Math D130
Precalculus
Preparation for first year calculus. Covers symmetry, graphs, functions, lines, parabolas and max-min problems, exponential and logarithm functions, exponential growth, semilog graphing, and the trigonometric functions and their inverses. Qualified students should enter Math D140 without taking this course.
Note: No student receives graduation credits for Math D130 if it is taken after successful completion of Math D140 or a higher math course. Students who have successfully completed Math D130 may not subsequently take Math D124 for credit. Students may take Math D130 after D124 only with explicit permission of the Math Department.
Prerequisite: Math Diagnostic Test only. Successful completion of Math D110 is not enough.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/047, Staff, Sched No 742709, 3 Credits
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/2/124, Staff, Sched No 742759, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/047, Staff, Sched No 742854, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/047, Staff, Sched No 742909, 3 Credits
Evening
May 31-July 13, MTuWTh 6:00-7:30pm, Harbor Campus W/1/046, Staff, Sched No 742804, 3 Credits
July 18-August 25, MTuWTh 7:45-9:15pm, Harbor Campus W/1/046, Staff, Sched No 742959, 3 Credits

Math 134
Managerial Algebra and Calculus
This course is designed to provide students with mathematical literacy through mastery of basic algebra and basic calculus. Topics include functions, graphs, absolute value, linear equations, inequalities, systems of linear equations and inequalities, polynomials, exponential and logarithmic functions, limits, continuity, derivatives, summation of series, and integration. Applications will be made to managerial situations throughout the course. *For CM students only.* Students may not receive graduation credit for more than one of these courses: Math 134, Math D135, or Math D140.
Prerequisites: Placement into Math D135 on Math Diagnostic Test, or completion of Math D124, or permission of instructor.
Evening
May 31-July 13, MTuWTh 6:00-7:30pm, Harbor Campus W/1/047, Staff, Sched No 744252, 3 Credits

Math D140
Calculus I
The first in the sequence of calculus courses for science and math majors. Starts with the basic concepts of functions and limits. Topics covered include derivatives and their applications, definite and indefinite integrals with applications to geometric and physical problems, and discussion of algebraic and transcendental functions.
Note: A student who has received credit for Math D135 may not take Math D140 for credit without the explicit permission of the department and then only for two credits.
Prerequisite: Math Diagnostic Test or Math D130.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 13, MTuWTh 8:00-9:45am, Harbor Campus W/1/045, Staff, Sched No 743153, 4 Credits
May 31-July 13, MTuWTh 10:00-11:45am, Harbor Campus W/2/126, Staff, Sched No 743208, 4 Credits
July 18-August 25, MTuWTh 8:00-9:45am, Harbor Campus W/1/045, Staff, Sched No 743303, 4 Credits
July 18-August 25, MTuWTh 10:00-11:45am, Harbor Campus W/2/126, Staff, Sched No 743353, 4 Credits
Evening
May 31-July 13, MTuWTh 7:45-9:30pm, Harbor Campus W/1/047, Staff, Sched No 743258, 4 Credits
July 18-August 25, MTuWTh 5:45-7:30pm, Harbor Campus W/1/047, Staff, Sched No 743408, 4 Credits

Math D141
Calculus II
Continuation of Math D140. Topics include transcendental functions, techniques of integration, applications of the integral, improper integrals, L'Hospital's rule, sequences, and series.
Prerequisite: Math D140 or equivalent.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 13, MTuWTh 8:00-9:45am, Harbor Campus W/1/057, Staff, Sched No 743808, 4 Credits
May 31-July 13, MTuWTh 10:00-11:45am, Harbor Campus W/1/057, Staff, Sched No 743858, 4 Credits
July 18-August 25, MTuWTh 8:00-9:45am, Harbor Campus W/1/057, Staff, Sched No 743953, 4 Credits
July 18-August 25, MTuWTh 10:00-11:45am, Harbor Campus W/1/057, Staff, Sched No 744002, 4 Credits
Evening
May 31-July 13, MTuWTh 5:45-7:30pm, Harbor Campus W/2/127, Staff, Sched No 743903, 4 Credits
July 18-August 25, MTuWTh 7:45-9:30pm, Harbor Campus W/1/047, Staff, Sched No 744052, 4 Credits

Math 240
Calculus III
Calculus of functions of several variables. Topics include partial derivatives, transformations, derivative as a matrix, chain rule, directional derivatives, gradients, second derivatives; and multiple integrals, substitution rule, and Jacobians.
Prerequisite: Math D141 required and either Math 150 or Phys D114 strongly recommended.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/058, Staff, Sched No 744652, 3 Credits

Math 260
Linear Algebra I
Elementary theory of abstract vector spaces. Topics include linear independence, bases, dimension, linear maps and matrices, determinants, orthogonality, eigenvalues and eigenvectors.
Prerequisite: Math D141.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/058, Staff, Sched No 744852, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/058, Staff, Sched No 744907, 3 Credits

Math 310
Applied Ordinary Differential Equations
Comprehensive study of ordinary, differential equations. Series solutions to differential equations, Bessel functions, characteristic functions, and Fourier series.
Prerequisites: Math D141 and either Math 260 or Phys D114.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/060, Staff, Sched No 745101, 3 Credits

Math 345
Probability
The mathematical study of the laws of random phenomena, including discrete and continuous random variables, expectation and variance, and common probability distributions such as the binomial, Poisson, and normal. Basic principles of combinatorics are introduced to solve problems in discrete probability spaces.
Prerequisite: Math 260 or permission of instructor.
Evening
July 18-August 25, MTuWTh 6:00-7:30pm, Harbor Campus W/2/127, Staff, Sched No 745301, 3 Credits

Math 470
Mathematical Logic
Syntax and semantics of propositional and first order predicate logics. Axiomatic theories and completeness. Brief discussions of incompleteness results.
Prerequisite: Math 360 or CS 320.
Morning
May 31-July 28, MTuTh 10:00-11:30am, Harbor Campus W/1/062, Staff, Sched No 745501, 3 Credits

● Music

Music C110
Listening Experience
A study of the creative processes which shape the musical artwork, emphasizing a broad range of intensive, analytical listening experiences.
Core Area: The Arts.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/005, Mr Patterson, Sched No 752607, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/005, Staff, Sched No 752552, 3 Credits

Music C111
Introduction to Music
Basic music materials, principles of design, and the cultural significance of representative works in historical sequence. Designed primarily for non-music majors.
Core Area: The Arts.
Morning
May 31-July 13, MTuWTh 8:30-9:45am, Harbor Campus W/1/005, Staff, Sched No 752807, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/005, Staff, Sched No 752857, 3 Credits

Music 185
Applied Music
Ten weekly sessions of private instruction in technique and literature at the beginning, intermediate or advanced levels for piano, guitar, voice, flute, and other orchestral instruments. This course carries one academic credit but may also be taken for no credit at the same course fee. Lessons begin the week of June 6. Hours by arrangement. Walk-in registration only. To register, and for further information, visit the Summer Session Registration Center at the Harbor Campus (Science Building, 2nd Floor Lobby).
Course fee: 10 weekly one-hour sessions, $300, 1 Credit.
10 weekly half-hour sessions, $175, 1 Credit.

Nursing

Nurs 201
Pathophysiology
The course deals with alterations in the normal physiology of body structures. Discussion of normal state is followed by the description of physiological changes resulting in the symptoms of disease. Topics include the various body systems, such as cardiovascular, renal, respiratory, and endocrine.
Prerequisites: Biol D111, 207.
Corequisite: Biol 208.
Evening
May 31-June 30, MTuWTh 4:30-6:30pm, Harbor Campus W/1/057, Staff, Sched No 753251, 3 Credits

Occupational Education

OccEd 201
Fundamentals of Occupational Education
This course is designed to provide provisionally approved vocational education teachers with a knowledge of the historical and philosophical foundations of vocational education and the content of federal and state laws pertaining to vocational education, and with the skills necessary to conduct occupational analysis, carry on a VICA program, and obtain assistance from local support groups and advisory committees. It is the first of six courses required by the Massachusetts Department of Education for approval of vocational education teachers.
Evening
May 31-July 13, MW 5:00-8:00pm, Watertown, Staff, Sched No 753651, 3 Credits

OccEd 202
Management of the Vocational Education Environment
This course is designed to train provisionally approved vocational educators in the theory and practice of effective classroom and laboratory management in a vocational setting. Instructional organization, shop organization, safety, first aid, and student management receive special emphasis. This is one of the six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Prerequisite: OccEd 201.
Evening
May 31-July 13, TuTh 5:00-8:00pm, Watertown, Staff, Sched No 753851, 3 Credits

OccEd 204
Teaching Methods in Vocational Education II
A continuation of OccEd 203.
Evening
May 31-July 13, TuTh 5:00-8:00pm, Beverly, Staff, Sched No 754055, 3 Credits
May 31-July 13, TuTh 5:00-8:00pm, Franklin, Staff, Sched No 754100, 3 Credits
May 31-July 13, TuTh 5:00-8:00pm, Bourne, Staff, Sched No 754150, 3 Credits

OccEd 205
Curriculum Development in Occupational Education
This course is designed to help the student develop and implement competency-based vocational education materials and procedures, including a program task list and a program advisory committee. This is one of the six courses required by the Massachusetts Department of Education for full approval of vocational education teachers.
Evening
May 31-July 13, MW 5:00-8:00pm, Watertown, Staff, Sched No 754350, 3 Credits
May 31-July 13, MW 5:00-8:00pm, Franklin, Staff, Sched No 754405, 3 Credits

OccEd 510
Seminar in Vocational Special Needs Education
Students are assisted in the development, field testing, and evaluation of curriculum materials and teaching strategies with a view toward resolving problems they encounter in the course of their practical experience.
Prerequisite: Nine hours of course work in vocational special education.
Corequisite: OccEd 599.
Morning
July 18-August 3, MTuWThF 9:00am-12:00noon, Hubert Humphrey Occupational Resource Center, Staff, Sched No 754700, 3 Credits

OccEd 599
Practicum in Vocational Special Needs Education II
This course provides students with an opportunity to implement a project for the improvement of the special needs program in a vocational education setting. Only students who successfully complete this practicum will be recommended to the Massachusetts Department of Education for approval as a vocational instructor of students with special needs.
Note: The fee for this three-credit course is $235.
Prerequisite: OccEd 598.
Corequisite: OccEd 510.
July 18-August 3, By Arrgt, Hubert Humphrey Occupational Resource Center, Staff, Sched No 754900, 3 Credits

Philosophy

Phil E100
Introduction to Philosophy
An introductory examination of the problems and scope of philosophy.
Core Area: Philosophical and Humanistic Studies.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus M/2/419, Staff, Sched No 758601, 3 Credits
Midday/Afternoon
May 31-July 13, MW 1:30-4:30pm, Harbor Campus M/2/419, Staff, Sched No 758506, 3 Credits
Evening
May 31-July 13 TuTh 6:00-9:00pm, Harbor Campus M/2/419, Staff, Sched No 758556, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/2/419, Sched No 758651, 3 Credits

Phil C108
Moral and Social Problems
Important moral and social issues of current concern are examined and debated. The course covers several problems each semester from a list including criminal punishment, war, abortion, racism, violence, the death penalty, private property, and sexism.
Core Area: Philosophical and Humanistic Studies.
Morning
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus M/2/417, Staff, Sched No 758001, 3 Credits
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-11:15pm, Harbor Campus M/2/419, Staff, Sched No 757902, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus, M/2/419, Staff, Sched No 757952, 3 Credits
July 18-August 25, TuTh 6:00-9:00pm, Downtown Center 503, Staff, Sched No 758051, 3 Credits

Phil D120
Introduction to Logic
The forms of valid reasoning, deductive and inductive, and their role in reflective thinking; formal logic, truth functions, quantifiers, proofs of formal adequacy, the classical problem and new riddle of induction, reasoning with probabilities, and elements of game theory.
Core Area: Mathematics and Computer Languages.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/2/419, Staff, Sched No 758251, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus M/2/419, Staff, Sched No 758306, 3 Credits

Phil E210
Philosophy of Education
Philosophical ideas and concepts relevant to the nature and aims of education.
Core Area: Philosophical and Humanistic Studies.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/428, Staff, Sched No 758851, 3 Credits

Phil E222
Moral Issues in Medicine
Concepts of health, illness, healing, under different paradigms of medicine. Is medicine an art or a science? Impact of medical technology on human life, death, what is considered "natural," with attention to issues in human reproduction (e.g., in vitro fertilization, conception, abortion). Questions of authority, accountability in the doctor-patient relationship, patient advocacy, self-help, right to health care or to refuse treatment. Social and political questions of health care organization.
Core Area: Philosophical and Humanistic Studies.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/1/428, Staff, Sched No 759055, 3 Credits

Physical Education

PE 161
Archery
This course is open both to novices and to intermediate players who wish to improve their game. The course introduces the basic rules and techniques of archery.
Note: the fee for this one-credit course is $105.00.
Midday/Afternoon
May 31-July 13, TuTh 11:45am-1:00pm, Harbor Campus M/1/Gym, Mr Saitta, Sched No 755904, 1 Credit

PE 176
Softball
This course is open both to novices and to intermediate players who wish to improve their game. The course introduces the basic rules and techniques of softball.
Note: the fee for this one-credit course is $105.00.
Midday/Afternoon
May 31-July 13, MW 11:45am-1:00pm, Harbor Campus M/1/Gym, Mr Saitta, Sched No 756108, 1 Credit

PE 180
Tennis I
This course is open both to novices and to intermediate players who wish to improve their game. The course introduces the basic rules and techniques of tennis.
Note: the fee for this one-credit course is $105.00.
Midday/Afternoon
May 31-July 13, TuTh 2:30-3:45pm, Harbor Campus Clark Center, Mr Thomas, Sched No 756308, 1 Credit

PE 256
Lifetime Fitness
This course helps individual students establish, evaluate, and maintain an appropriate and desirable level of fitness. The focus will be on individualized instruction that will also take into consideration the needs of the disabled, the elderly, the overweight, and pregnant women. The course includes both lecture and laboratory components.
Note: A release from a physician is required for students who are over 35 years old or disabled.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/053, Ms Pappalardo, Sched No 756508, 3 Credits

PE 456
Fitness Appraisal and Program Designs
This course focuses on physical fitness appraisal and exercise prescription. Students will be introduced to sophisticated stress testing equipment and will develop skills designing fitness programs for all ages.
Prerequisite: PE 321.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/033, Mr Thomas, Sched No 756708, 3 Credits

PE 466
Exercise Testing and Prescription
This course increases the student's knowledge of cardiovascular physiology and pathophysiology. The focus is on development of different cardiovascular assessments through graded exercise protocols. The student develops skills in devising preventive and rehabilitative exercise programs.
Prerequisite: PE 456.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus W/1/033, Mr Thomas, Sched No 756908, 3 Credits

PE 470
Recreation and Leisure Services for Activities Professionals
Overview of the therapeutic recreation field, including rationale, history and philosophy, goals, treatment settings, assessment, documentation and program planning, and program evaluation.
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/058, Mr Bromfield, Sched No 757102, 3 Credits

PE Hlt102
Health Science/Fitness
This course stresses scientific information and the development of health practices that contribute to effective living and personal assessment of fitness.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/055, Mr Saitta, Sched No 757502, 3 Credits

Special Program: Boston Sports Medicine Institute

PE Ath300
Assessment, evaluation, and diagnosis of common sport and dance injuries, as well as treatment protocol. Lectures in anatomy and practical demonstrations of injury assessment and diagnosis. Three afternoon laboratories cover common sport tapings and wrappings. Leading sports medicine physicians, trainers, and physical therapists will lecture on surgical techniques, modalities in sports medicine, and the prevention and management of injuries.
Note The fee for this two-credit course is $355.00.
Day
June 13-June 15, MTuW 9:00am-5:30pm, Harbor Campus, Mr Roncarati, Sched No 757302, 2 Credits

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Physics

Phys D107
College Physics I
Non-calculus introductory physics for life-science students and others with a program requirement for a year of physics at this level. Topics include mechanics, fluids, wave motion, kinetic theory of gases, temperature, and heat. Students should enroll concurrently in Phys 181 unless exempted by the instructor.
Prerequisite: Math D130 or permission of instructor.
Core Area: Natural Sciences.
Morning
Lect: May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus S/1/006, Staff, Sched No 759455, 3 Credits
Disc: MW 10:00-10:50am, Harbor Campus S/2/066, Sched No 759500
TuTh 10:00-10:50am, Harbor Campus S/2/066, Sched No 759550
MW 11:00-11:50am, Harbor Campus S/2/066, Sched No 759605
Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of class.
For information, call 929-7760.

Phys D108
College Physics II
A continuation of Phys D107. Topics include thermodynamics, electricity and magnetism; optics; and a preview of modern physics. Students should enroll concurrently in Phys 182 unless exempted by the instructor.
Prerequisite: Phys D107 or permission of instructor.
Core Area: Natural Sciences.
Morning
Lect: July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus S/1/006, Staff, Sched No 759805, 3 Credits
Disc: MW 10:00-10:50am, Harbor Campus S/2/066, Sched No 759855
TuTh 10:00-10:50am, Harbor Campus S/2/066, Sched No 759900
Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of classes.
For information, call 929-7760.

Phys D113
Fundamentals of Physics I
The first semester of calculus-level introductory physics. Topics include mechanics, hydrodynamics, waves, kinetic theory, and heat. Students should enroll concurrently in Phys 181 unless exempted by the instructor.
Corequisite: Math D140; corequisite for physics majors: Phys 181.
Core Area: Natural Sciences.
Morning
Lect: May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/063, Staff, Sched No 760107, 4 Credits
Disc: MW 10:00-11:40am, Harbor Campus W/1/063, Sched No 760202
TuTh 10:00-11:40am, Harbor Campus W/1/063, Sched No 760252
Students who register for the daytime lecture must also register for a daytime discussion section and, if taking a lab, for a daytime lab section. Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of classes. For information, call 929-7760.
Evening
Lect: May 31-July 13, MTuWTh 5:30-7:00pm, Harbor Campus W/1/063, Staff, Sched No 760157, 4 Credits
Disc: MW 7:10-8:50pm, Harbor Campus W/1/063, Sched No 760307
Students who register for the evening lecture must also register for an evening discussion section and, if taking a lab, for an evening lab section.

Phys D114
Fundamentals of Physics II
The second semester of calculus-level introductory physics. Topics include thermodynamics, electricity and magnetism, geometrical and wave optics. Students should enroll concurrently in Phys 182 unless exempted by the instructor.
Note: Phys D114 may be substituted for Math 150 as a recommended prerequisite for Math 240.
Corequisite: Math D141; corequisite for physics majors: Phys 182.
Prerequisite: Phys D113 or permission of instructor.
Core Area: Natural Sciences.
Morning
Lect: July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/063, Staff, Sched No 760507, 4 Credits
Disc: MW 10:00-11:40am, Harbor Campus W/1/063, Sched No 760602
TuTh 10:00-11:40am, Harbor Campus W/1/063, Sched No 760652
Students who register for the daytime lecture must also register for a daytime discussion section and, if taking a lab, for a daytime lab section. Registration for daytime discussion sections is tentative; permanent assignments will be made on the first day of classes. For information, call 929-7760.
Evening
Lect: July 18-August 25, MTuWTh 5:30-7:00pm, Harbor Campus W/1/063, Staff, Sched No 760557, 4 Credits
Disc: MW 7:10-8:50pm, Harbor Campus W/1/063, Sched No 760707
Students who register for the evening lecture must also register for an evening discussion section and, if taking a lab, for an evening lab section.

Phys 181
Physics Laboratory I
Exploration of basic physical phenomena through laboratory work. Experiments in kinematics, mechanics, and hydrostatics. This course is designed to accompany either level of introductory physics.
Corequisite: Phys D107 or D113.
Midday/Afternoon
May 31-July 13, M 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 760907, 1 Credit
May 31-July 13, Tu 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 760957, 1 Credit
May 31-July 13, W 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 761006, 1 Credit
May 31-July 13, Th 12:00-2:30pm, Harbor Campus S/3/039, Lab Fee: $10.00, Sched No 761056, 1 Credit
Students registering for a daytime lab section must also have registered for a daytime lecture and discussion section.
Evening
May 31-July 13, Tu 7:10-9:40pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 761101, 1 Credit
Students registering for an evening lab section must also have registered for an evening lecture and discussion section.

Phys 182
Physics Laboratory II
Exploration of basic physical phenomena through laboratory work. Experiments in thermodynamics, electricity, magnetism, and optics. This course is designed to accompany either level of introductory physics.
Corequisite: Phys D108 or D114.
Midday/Afternoon
July 18-August 25, M 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 761301, 1 Credit
July 18-August 25, Tu 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 761351, 1 Credit
July 18-August 25, W 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 761406, 1 Credit
July 18-August 25, Th 12:00-2:30pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 761456, 1 Credit
Students registering for a daytime lab section must also have registered for a daytime lecture and discussion section.
Evening
July 18-August 25, Tu 7:10-9:40pm, Harbor Campus S/3/029, Lab Fee: $10.00, Sched No 761501, 1 Credit
Students registering for an evening lab section must also have registered for an evening lecture and discussion section.

Political Science

PolSci E122
Government and Politics of the United States
The three main branches of the national government, federalism, political parties, interest groups, and governmental functions.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus M/1/428, Mr Greco, Sched No 762600, 3 Credits
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/1/418, Ms Peters, Sched No 762650, 3 Credits

PolSci C123
Political Ideas of the Twentieth Century
Major political viewpoints of the present, including conservatism, liberalism, Marxism, and fascism.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 10:00am-11:30am, Harbor Campus M/1/428, Mr Langley, Sched No 761901, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/1/418, Ms Peters, Sched No 761951, 3 Credits

PolSci E201
Comparative Politics of Industrialized Societies
Introductory survey of political systems in the industrialized world, including the United States, Europe, and Japan.
Core Area: Social and Behavioral Sciences.
Midday/Afternoon
May 31-July 13, TuTh 1:30-4:30pm, Harbor Campus M/1/212, Mr Schwark, Sched No 762850, 3 Credits

PolSci E202
Comparative Politics: Third World
Introductory survey of political systems in non-industrialized nations, drawing on examples from Latin America, Africa, and Asia. Course content focuses on the nature of the development process and the evolution of political institutions and practices.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/2/428, Mr Greco, Sched No 763010, 3 Credits

PolSci E203
Public Policy
The process of policy making in Washington and the manner and effects of policy implementation in states and localities.
Core Area: Social and Behavioral Sciences.
Morning
July 18-August 25, MTuWTh 10:00am-11:30am, Harbor Campus M/1/428, Mr Ward, Sched No 763254, 3 Credits

PolSci C220
International Relations
Through the examination of past and current international events, this course identifies basic principles and concepts which explain the behavior of nations; and it provides an introduction to the general area of social and behavioral sciences. Special attention is given to the role of war, economic relations, technology, ideologies (Marxism and capitalism-liberalism in particular), and various attempts like those of the United Nations to regulate international conflict. Of particular concern is the role of the Third World and its perspective, the dynamics of global interdependence, and the psychological dimension which ultimately determines how nations perceive each other.
Core Area: Social and Behavioral Sciences.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/428, Mr Langley, Sched No 762355, 3 Credits
Evening
July 5-August 4, MTuWTh 4:00-6:00pm, Harbor Campus M/2/417, Mr Watanabe, Sched No 762400, 3 Credits

PolSci C252
Modern Political Thought
The history of Western political ideas from the time of Machiavelli to that of Marx.
Core Area: Historical and Cultural Studies.
Midday/Afternoon
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/428, Mr Ward, Sched No 762155, 3 Credits

PolSci 372
Central American Politics
The study of the political and economic antecedents of the political situation in Central America, with emphasis on Nicaragua, Guatemala, and El Salvador. Attention is also given to Honduras, Belize, Panama, and Costa Rica. The course examines the foreign policy of the United States and of other Latin American states toward the region.
Prerequisite: PolSci E122 or C123.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus M/1/418, Mr Spence, Sched No 763454, 3 Credits

PolSci 484
Special Problems in the Field of Politics I
Seminar in the field of practical politics generally taught by professional politicians.
Prerequisite: Permission of instructor.
By Arrgt, Mr Greer, Sched No 763654, 3 Credits

PolSci 488
Field Work in Politics
Carefully supervised field work, available only to a limited number of qualified students in any one semester. Written prospectus of the product, periodic conferences with a faculty advisor, and appropriate written work required.
Prerequisites: Completion of a relevant course, and permission of instructor.
By Arrgt, Mr Greer, Sched No 763854, 3 Credits

PolSci 590
Field Practicum in Politics
Placement in a government or political agency to help students integrate course work with practical training.
Prerequisite: Permission of instructor.
By Arrgt, Mr Greer, Sched No 764058, 9 Credits

Psychology

Psych E101
Introductory Psychology
A general survey of selected content areas in psychology, including personality and human development, physiological psychology, learning, intelligence, heredity and environment, motivation and emotion.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus M/1/418, Staff, Sched No 764458, 3 Credits
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus M/1/418, Staff, Sched No 764553, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Downtown Center 509, Staff, Sched No 764503, 3 Credits
July 18-August 25, TuTh 6:00-9:00pm, Downtown Center 507, Staff, Sched No 764608, 3 Credits

Psych 102
Introduction to Behavioral Research
An introduction to the ways of discovering, describing, and making warranted assertions about aspects of people and social life. The chief objectives are 1) to help students develop the skills and knowledge necessary to become intelligent critics of research in the behavioral and social sciences, and 2) to give them a rudimentary understanding of the design and evaluation of scientific research. Statistical material is treated in a conceptual manner. Classroom work and course examinations concentrate equally on research design and research evaluation.
Prerequisite: Psych E101.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/1/418, Staff, Sched No 766501, 3 Credits
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus M/1/418, Staff, Sched No 766551, 3 Credits

Will your descendants look like this in one million A.D.? H.G. Wells thought so. Find out about him in Engl 334, Science Fiction. See page 9.

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Psych E200
Personality
Conceptions of human nature are examined in light of various theories of personality. This course focuses on the theories of Freud, Adler, Sullivan, Erikson, Kelly, ego psychologists and other theorists presenting the behavioristic and humanistic perspectives. Among the topics to be addressed are personality structure and its development; stress and coping; neurotic styles; human motives and their measurement.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Midday/Afternoon
May 31-July 13, MW 1:30-4:30pm, Harbor Campus M/1/608, Staff, Sched No 764808, 3 Credits
July 18-August 25, MTuWTh 11:45am-1:15pm, Harbor Campus M/2/205, Staff, Sched No 764903, 3 Credits
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/1/418, Staff, Sched No 764858, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/1/417, Staff, Sched No 764953, 3 Credits

Psych E215
Psychopathology
Etiology, dynamics, and treatment of psychopathology.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 8:15-9:40am, Harbor Campus M/2/205, Staff, Sched No 765157, 3 Credits

Psych E230
Social Psychology
A scientific attempt to understand and explain how the thought, feeling, and behavior of individuals are influenced by the actual, imagined, or implied presence of others; the course focuses on the drama of social interaction.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Morning
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus M/1/417, Staff, Sched No 765357, 3 Credits

Psych E241
Infancy and Childhood Development
This course explores human development from infancy to middle childhood, i.e., from childbirth to ages seven or eight. Major emphasis is placed on early perceptual, cognitive, social and affective development bearing the following questions in mind: How does the world of space and objects appear to the infant? How does he or she acquire knowledge and discover reality? How does the child experience the world of people and develop a sense of self? How does the child develop attachments to others and what role is played by the significant people in his or her life?
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/2/208, Staff, Sched No 765557, 3 Credits
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/1/418, Staff, Sched No 765602, 3 Credits

Psych E242
Adolescence
This course is designed to acquaint students with psychological characteristics of adolescent development, theoretical approaches to adolescence, and experimental studies of the causes of a variety of behaviors during adolescence. The course also focuses on major problems and characteristics of adolescents in modern society.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Midday/Afternoon
May 31-July 13, MTuWTh 11:45am-1:15pm, Harbor Campus M/1/608, Staff, Sched No 765802, 3 Credits
July 18-August 25, MW 1:30-4:30pm, Harbor Campus M/1/608, Staff, Sched No 765907, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00am, Downtown Center 507, Staff, Sched No 765852, 3 Credits

Psych E250
Learning and Memory
An introduction to current views of behavioral change, learning, and remembering. The course focuses on concepts, theoretical issues, and applications of current research.
Prerequisite: Psych E101.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus M/2/205, Staff, Sched No 766101, 3 Credits

Psych E260
Physiological Psychology
An examination, in depth, of selected topics in physiological psychology, including the evolution of the vertebrate nervous system, communication in the central nervous system, emotion, reward and punishment, and physiological methodology.
Prerequisite: Psych E101 or Biol D111.
Core Area: Social and Behavioral Sciences.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus M/2/205, Staff, Sched No 766301, 3 Credits

Psych 302
Human Motives and Emotions
An examination of major issues in the area of human motives and emotions. Theoretical analyses from the early theories of James, Dewey, Freud, and Watson to contemporary studies employing the evolutionary, behaviorist, and cognitive perspectives. Topics include the relationship among motives, emotions, and personality, and the rationality of the emotions.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/1/213, Staff, Sched No 766751, 3 Credits

Psych 333
Group Dynamics
An examination of small group behavior from a theoretical and empirical perspective. The group is viewed as a system functioning in a number of environments — physical, personal, social, and task. Each of these interrelated environments influences various aspects of group process. Thus leadership, power, conformity, status, goals, etc., are considered as interrelated processes of social interaction.
Prerequisites: Psych E101 and E230.
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/1/213, Staff, Sched No 766795, 3 Credits

Study of Religion

RelStd C104
Socrates, Jesus, Buddha
A study of three great paradigmatic figures and the different ways of life and views of reality that they represented Attention to the social-cultural contexts in which they emerged; critical evaluation of Socrates and Jesus as sources of Western values; and exploration of why the Buddha has recently become an attractive alternative.
Core Area: Philosophical and Humanistic Studies.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Downtown Center 517, Mr Lafargue, Sched No 767155, 3 Credits

RelStd E109
Symbol, Myth, and Ritual
An introductory and survey course in religion which takes a comparative and interdisciplinary approach. Beginning with primitive and archaic religion (including myth and ritual), it concentrates on two or three of the world-historical religions (e.g., Buddhism, Judaism, Christianity — including mysticism and millenarianism) and on contemporary religious phenomena.
Core Area: Philosophical and Humanistic Studies.
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/1/428, Staff, Sched No 767355, 3 Credits

RelStd 280
Religion and Science
Religions have a way of viewing the world that is challenged by the modern sciences. This course will examine such issues as creation versus evolution; materialism versus "spiritual" beliefs; explanations of religious beliefs as results of psychological or sociological factors; and others. We will also look at the response of religious thinkers to these challenges, especially the move away from literature toward symbolic interpretations of religious beliefs. Students are encouraged to think out their own position on these questions.
Midday/Afternoon
May 31-June 30, MTuWTh 11:45am-1:45pm, Harbor Campus M/2/205, Mr LaFargue, Sched No 767555, 3 Credits

Sociology

Sociol E101
Introduction to Sociology
The structure of society, cultural patterns, and group life. The individual and socialization, groups, institutions, social systems, social change.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/009, Mr Jacobs, Sched No 768604, 3 Credits
Midday/Afternoon
July 18-August 25, TuTh 1:30-4:30pm, Harbor Campus W/1/056, Mr Salerno, Sched No 768759, 3 Credits
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/045, Mr Kamara, Sched No 768654, 3 Credits
July 18-August 25, MW 6:00-9:00pm, Downtown Center 503, Ms Cousins, Sched No 768709, 3 Credits

Sociol C140
Life Cycle
This course focuses on youth, adulthood, and old age; it examines the way in which, during different stages in life, different kinds of relationships rise and fall in importance. It considers the meaning of work at different stages and, in general, how individuals and groups cope with change.
Core Area: Social and Behavioral Sciences.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus W/1/010, Mr Kefayati, Sched No 768359, 3 Credits
Evening
July 18-August 25 MW 6:00-9:00pm, Harbor Campus W/1/055, Mr Kefayati, Sched No 768404, 3 Credits

Sociol E160
Social Problems
A course concentrating on institutional formation and change. Specifically, it includes the definition and explanation of social problems, individual, group and governmental responses to them, implications of social policy, in-depth case studies, and discussion of contemporary social problems.
Prerequisite: Sociol E101.
Core Area: Social and Behavioral Sciences.
Evening
July 18-August 25, TuTh 6:00-9:00pm, Downtown Center 517, Ms Darlington-Hope, Sched No 768959, 3 Credits

Sociol E242
Family
A comparative and historical analysis of family systems. Emphasis on the development and future prospects of the nuclear family in middle-class industrial society.
Prerequisite: Sociol E101.
Core Area: Social and Behavioral Sciences.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/055, Mr Howard, Sched No 769153, 3 Credits

Sociol E261
Social Deviance and Control
The social conditions of individual and group behavior disorders, deviant subcultures, and social control.
Prerequisite: Sociol 101.
Core Area: Social and Behavioral Sciences.
Morning
July 18-August 25, MTuWTh 10:00-11:30am, Harbor Campus W/1/009, Staff, Sched No 769214, 3 Credits

Sociol E281
Society and the Individual
Basic survey of the social environment of individuals.
Prerequisite: Sociol E101.
Core Area: Social and Behavioral Sciences.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus W/1/055, Ms Husch, Sched No 769353, 3 Credits

Sociol 342
Aging and Society
An examination of theories and research on aging and society. The course is organized into two sections. The first explores the general relationship of the aging process and the aged to the social, economic, and political systems in a youth-oriented and work-oriented society. The second draws upon cross-national and cross-cultural material.
Prerequisite: Sociol E101.
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus W/1/055, Staff, Sched No 769553, 3 Credits

Sociol 351
Methods of Sociological Research
Design of sociological research and methods of inquiry. Organization and analysis of data development of research projects.
Prerequisites: Sociol E101 and junior standing.
Midday/Afternoon
May 31-June 30, MTuWTh 11:45am-1:45pm, Harbor Campus W/1/045, Mr Movahedi, Sched No 769753, 3 Credits

Sociol 361
Criminology
A general survey and analysis of adult crime. Attention to historical development of criminological thought, societal reaction to crime, and behavioral systems. Emphasis on theories of criminality and issues in the administration of justice by police and courts.
Prerequisites: Sociol E101 and junior or senior standing.
Evening
May 31-July 13 MW 6:00-9:00pm, Downtown Center 503, Mr Berg, Sched No 769953, 3 Credits

Sociol 382
Social Psychology of Sex Roles — Men and Women in Society
An analysis of male and female roles in society with consideration of biological and psychological factors. Attention to socialization processes which reflect society's functional definition of acceptable and deviant sex roles.
Prerequisite: Sociol E101.
Morning
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus W/1/010, Ms Corcoran, Sched No 770350, 3 Credits

Sociol 480
Drugs and Society
The course will focus on the sociohistoric context of drug use. It will deal with historical and contemporary issues on both a societal and individual level. Information will be presented on a variety of substances which are predominant in modern society, such as caffeine, nicotine, alcohol, opiates, and other drugs, and the impact they have on our lives.
Midday/Afternoon
May 31-July 13, TuTh 1:30-4:30pm, Harbor Campus W/1/056, Ms Husch, Sched No 770550, 3 Credits

Spanish

Span D101
Elementary Spanish I
For students with no creditable training in Spanish. An intensive study of the four language skills based on an audio-lingual approach.
Core Area: Foreign Languages.
Morning
Lect: May 31-June 30, MTuWTh 8:15-10:45am, Harbor Campus M/1/614, Ms Dorsinville, Sched No 771059, 4 Credits
Lab: May 31-June 30, By Arrgt, Lab Fee: $10.00, Sched No 771209
Lect: May 31-July 13, MTuWTh 10:00am-12:00noon, Harbor Campus M/2/209, Ms Osorio, Sched No 770950, 4 Credits
Lab: May 31-July 13, By Arrgt, Lab Fee: $10.00, Sched No 771104
Evening
Lect: May 31-July 13, MTuTh 6:00-8:20pm, Downtown Center 510, Staff, Sched No 771009, 4 Credits
Lab: May 31-July 13, By Arrgt, Lab Fee: $10.00, Sched No 771154

Span D102
Elementary Spanish II
A continuation of Spanish D101.
Prerequisite: Span D101 or equivalent.
Core Area: Foreign Languages.
Morning
Lect: July 5-August 4, MTuWTh 8:15-10:45am, Harbor Campus M/2/428, Staff, Sched No 771504, 4 Credits
Lab: July 5-August 4, By Arrgt, Lab Fee: $10.00, Sched No 771659
Lect: July 18-August 25, MTuWTh 10:00am-12:00noon, Harbor Campus M/2/209, Mr Ryan, Sched No 771409, 4 Credits
Lab: July 18-August 25, By Arrgt, Lab Fee: $10.00, Sched No 771554
Evening
Lect: July 18-August 25, MTuTh 6:00-8:20pm, Downtown Center 510, Mr Dietrick, Sched No 771459, 4 Credits
Lab: July 18-August 25, By Arrgt, Lab Fee: $10.00, Sched No 771609

Span D201
Intermediate Spanish I
An oral and written review and further study of the language skills with readings in Spanish and Spanish-American literature and culture.
Prerequisite: Span D102 or equivalent.
Core Area: Foreign Languages.
Morning
May 31-July 13, MTuWTh 8:15-9:45am, Harbor Campus M/1/420, Ms Osorio, Sched No 771859, 3 Credits

Span D202
Intermediate Spanish II
A continuation of Spanish D201.
Prerequisite: Span D201 or equivalent.
Core Area: Foreign Languages.
Morning
July 18-August 25, MTuWTh 8:15-9:45am, Harbor Campus M/1/420, Mr Ryan, Sched No 772053, 3 Credits

Special Program: Spanish Translation

May 31-August 25
Every summer the Department of Spanish and Portuguese at UMass/Boston offers a special undergraduate program for both Spanish and English native speakers leading to the Certificate in Translation. The program consists of an advanced two-course sequence, 12 credits in all, taught by specialists in linguistics and translation. Proficiency requirements must be met before a student can register for the program, and departmental approval is required. For information to apply please contact the Department of Spanish and Portuguese at UMass/Boston telephone 929-7670

Span 306
Introduction to the Techniques of Translation
Development of the basic techniques and skills needed for translation. Emphasis on translation into the native language with some practice in the opposite direction. Methods of contrastive linguistics are used to analyze pertinent aspects of language structure involving syntax, vocabulary and style. Material for this course is taken from published translations of both a literary and non-literary character. Students are given ample opportunity to apply these techniques through a series of translation assignments, which form the basis for class discussion.
Morning
May 31-July 13, MTuWTh 9:00am-12:00noon, Harbor Campus M/1/415, Staff, Sched No 772308, 6 Credits

Span 307
Advanced Translation
Practice in translating a variety of genres and styles, both literary and non-literary, e.g., passages from cultural material, short stories and essays, government documents, scientific, commercial, and technical prose. Emphasis is on translating into the native language, but considerable practice is given in translating material in the commercial and human service fields from the native to the non-native language. Literary material is taken from various periods to make students aware of historical changes in vocabulary, syntax, tone, and style.
Prerequisite: Span 306, permission of department
Morning
July 18-August 25, MTuWTh 9:00am-12:00noon, Harbor Campus M/1/415, Staff, Sched No 772508, 6 Credits

Special Program: Spanish in Cuernavaca, Mexico

June 11-July 10
Every year the Spanish and Portuguese Department of the University of Massachusetts at Boston offers a program focusing on intermediate Spanish taught in Cuernavaca. Most participants are expected to take intermediate Spanish I and intermediate Spanish II although with permission of the department, applicants at other levels of achievement in the language may be accepted for the program.

Cuernavaca is a beautiful town in the mountains an hour's drive from Mexico City on the road to Taxco. While in Cuernavaca students live with Mexican families in a totally Spanish speaking environment. The program fee includes three meals a day and opportunities for field trips on weekends.

Groups are restricted in size to 4-6 students; they are taught by native speakers and supervised by a member of UMass/Boston's Spanish and Portuguese Department. Participants must register for two courses. Successful students are awarded up to six undergraduate credits for their participation in the program. (A non-credit option is available with prior permission of the department).

The Division of Continuing Education is making arrangements to obtain group rate fares for the flight from Boston to Mexico City and return. They will be available on a limited, first come-first served basis.

The total cost of the program — course fees, room and board — is $850.00 (airfare not included).

Persons wishing to enroll in the program should request application materials from UMass/Boston's Division of Continuing Education by calling 617/929-7900. The deadline for application is April 29, 1988.

Theatre Arts

ThArt 121
The Styles and Techniques of Comedy
A study of the comic form, emphasizing the differing styles, techniques, motivations, and degrees of effectiveness of various exemplary comic playwrights, particularly in relation to their audiences, actors, and theatre architectures.
Midday/Afternoon
May 31-June 30, MTuWTh 11:45am-1:45pm, Harbor Campus M/2/616, Mr Fox, Sched No 776360, 3 Credits

ThArt 125
Speech and Movement
Basics of voice-training, diction-improvement, diaphragmatic breathing, movement work for the stage: characterization-movement and movement to develop stage presence.
Evening
July 18-August 25 MW 6:00-9:00pm, Harbor Campus M/2/616, Mr Armstrong, Sched No 776504, 3 Credits

ThArt 236
Introduction to Acting I
Dramatic form as required in acting. A survey of various styles: Greek, Elizabethan, Restoration, and modern; the actor's function, with emphasis on recently evolved methods of acting, and on preparation of scenes in class.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/2/616, Mr Armstrong, Sched No 776704, 3 Credits

Special Program: Theatre Arts on Nantucket

July 1-August 23
For more than twenty years, the Theatre Arts Department of UMass/Boston has offered summer programs in various aspects of theatre and film on the island of Nantucket to professionals and students. Comfortable residential accommodations are provided in the town of Nantucket in furnished apartments owned by the University. Classes are held at the historic Coffin School in the center of town.

This year's program consists of the following four-course sequence in playwriting, performance and production:

ThrArt 481A Script Reading
ThrArt 481B Rehearsal Techniques
ThrArt 482A Scene Study
ThrArt 482B Performance Studio

This sequence gives participants the opportunity to examine and develop scripts, translate dialogue into character development, and integrate elements of performance preparation and production design into their work.

The fee for this twelve-credit course sequence, including housing, is $1400.00. A non-credit option is available by special permission.

To apply for acceptance, applicants should send a brief statement of their theatre experience and their academic history to:

Dr. Louis Roberts, Chairman
Theatre Arts Department
University of Massachusetts at Boston
Harbor Campus Boston, MA 02125-3393

The deadline for application is April 15, 1988.
For further information, call or write:

Division of Continuing Education
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393
Telephone 929-7900

ThrArt 482C
Modern Dance Workshop
This course offers students an opportunity to practice and experiment with various forms of contemporary dance. Class work includes techniques basic to modern and jazz dance, as well as an emphasis on developing improvisational skills. Requirements include background reading and the performance of assigned projects.
Midday/Afternoon
May 31-June 30, MTuWTh 11:45am-1:45pm, Harbor Campus M/2/008, Ms Tolbert, Sched No 777869, 3 Credits

Women's Studies

WoSt C100
Women and Society
An introductory, interdisciplinary course recommended as a first course in women's studies. Through lectures, readings, and discussions, students examine the origins of women's oppression; female and male sex roles; marriage and the family; women workers at home and in the labor force. Students relate course material to experiences in their own lives. Preference is given to first and second year students.
Core Area: Social and Behavioral Sciences.
Midday/Afternoon
May 31-June 30, MTuWTh 11:45am-1:45pm, Harbor Campus W/1/055, Staff, Sched No 778302, 3 Credits

WoSt C150
Women, Culture, and Identity
An introductory level course examining the origins of present attitudes about women, the situation of women in patriarchal cultures, and efforts by women to achieve a self-defined female identity. Drawing on materials from myth, religion, philosophy, anthropology, feminist analysis, literature, and autobiography, the course investigates cultural beliefs about woman's "nature" and role at different times and places, as well as attempts to explain the origins and persistence of woman's subordination, and women's efforts to define a new identity through political and creative activity.
Core Area: Philosophical and Humanistic Studies.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus W/1/056, Staff, Sched No 778502, 3 Credits

WoSt 180A
Women, Work, and Stress
Paid work. Housework. Wife work. Mother work. Women's work is never done and is a primary source of stress and illness, a possible source of joy and well-being. This course explores relationships among women's work experiences, stress, and their health. Special attention is given to class members' own work and stress issues.
Evening
July 18-August 10, MW 6:00-9:00pm, Harbor Campus W/1/056, Ms Cordill, Sched No 778974, 2 Credits

WoSt 180B
Women and AIDS
Questions the course will explore include: How is the AIDS epidemic affecting the lives of women? What are women doing to care for themselves and those they love, and to help contain this epidemic? How do women's roles and status affect their ability to protect themselves and their children?
Evening
August 15-August 24, MW 6:00-9:00pm, Harbor Campus W/1/056, Ms Cordill, Sched No 779001, 1 Credit

WoSt C220
Women and the Media
How the historical evolution and commercial orientation of mass communications media have helped shape the social content of advertising, entertainment fictions, and news. Particular emphasis is placed on the impact of mass communications media on children and adults' images of women and men. Students learn to distinguish stereotypes from more complex characterizations; to analyze visual imagery for its conceptual and emotional messages; and to monitor the representations of women and other culturally subordinate groups in the print and broadcast media. Some consideration is given to the status of women and minorities in communications industries.
Prerequisite: WoSt C100 or C150 is recommended though not required.
Core Area: The Arts.
Midday/Afternoon
July 18-August 25, MTuW 11:45am-1:45pm, Harbor Campus W/1/055, Staff, Sched No 778902, 3 Credits

WoSt 280
Midlife Issues for Women
After examining the stereotypes surrounding the aging process for women, the course follows women developmentally from the "midlife crisis" through old age, focusing on physical and psychological health, social, economic, and occupational issues affecting their lives.
Morning
May 31-July 13, MTuWTh 10:00-11:30am, Harbor Campus W/1/019, Staff, Sched No 779106, 3 Credits

Special Program: American Civilization

American Studies Summer Institute
July 11-22, 1988
AmCiv 697
Reflections on America in the Nuclear Age

Each year UMass/Boston invites secondary school teachers and graduate students to take part in the American Studies Summer Institute, an intensive two-week program of lectures, discussions, and readings, at the John F. Kennedy Library. Institute participants develop major research or curriculum projects, and earn three graduate credits. This summer's program examines issues involving the nuclear arms race and arms control. The commemoration of the twenty-fifth anniversary of the Nuclear Test Ban Treaty will provide an opportunity to explore topics such as the birth of the atomic bomb; the Cold War; Soviet views on arms development and control; the nuclear culture; the consequences of nuclear war; nuclear proliferation; the current agenda, and public activism against nuclear weapons. A distinguished group of scholars and guests will conduct the sessions under the direction of UMass/Boston faculty and JFK Library staff. The seminar is primarily designed for teachers and graduate students.

July 11-July 22, MTuWThF 10:00am-3:00pm, JF Kennedy Library, Mr Watanabe and Staff, Sched No 704800

The fee for this three-credit course is $75.

The application deadline is May 20, 1988.

Enrollment is limited and selective. For application materials and further information, please write or call:

Ms Michele Biagioni
John F. Kennedy Library
Boston, MA 02125
(617) 929-4548

Bilingual Studies/ESL

BES 640
Methods and Materials in Bilingual Education

Examination of major contemporary theories of learning in bilingual education. Focus on instructional improvement strategies, on objectives, and on procedures of evaluation, as they relate to the developmental needs of elementary and secondary bilingual students. Prospective teachers acquire an understanding of the process of selection, adaptation, and development of instructional materials.

Evening
May 31-June 30, MTuWTh 5:00-7:00pm, Harbor Campus M/1/619, Mr Hebert, Sched No 708806, 3 Credits

BES 660
ESL Methodology I

This course is designed to provide students with a theoretical background in the principles and methods of teaching English as a second language. It considers the nature of second language acquisition and the psychological and linguistic influences on ESL teaching. The course includes a survey of major methodological approaches to ESL teaching, and an evaluation of the relation of theory to practice.

Evening
May 31-June 30, MTuWTh 5:00-7:00pm, Harbor Campus M/1/420, Staff, Sched No 709000, 3 Credits

BES 663
The Structure of the English Language

This course covers ways of describing the structure of English, from traditional methods used in many textbooks to alternative methods. Discussion of teaching methodologies and sociolinguistic considerations, and practice in applying these theories and techniques.

Evening
July 5-August 4, MTuWTh 5:00-7:00pm, Harbor Campus M/1/619, Staff, Sched No 709111, 3 Credits

Business Administration (MBA)

Note: Any student wishing to enroll in any of the 600-level MBA courses listed below 1) must be enrolled in one of UMass/Boston's graduate programs, or in an MBA program elsewhere; and 2) must receive written permission from UMass/Boston's MBA Program Director before registering. For further information, call the MBA Program Office at 929-8140.

MGT 680
Management of Health Organizations

Explores the roles of the health systems manager as planner, organizer, leader, and integrator of health programs. Particular attention is given to how these roles differ from industry's roles, as well as to the special demands made of the manager in a health systems organization.

Prerequisite: MGT 650.
Evening
July 18-August 25, MW 6:00-9:00pm, Harbor Campus M/2/428, Mr Slavin, Sched No 747854, 3 Credits

MS 635
Operations Management

Familiarizes students with the analysis, planning, and control of operations and operating resources in any type of organization. Analytical techniques used in the solution of system design and operations planning, and control problems are also discussed.

Prerequisite: MS 630.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus M/2/428, Mr Berman, Sched No 751203, 3 Credits

MS 640
Computer and Information Systems

Introduces students to the concepts of information systems, managerial issues concerning information systems, and the role and components of the computer in information systems. A programming language will be presented for purposes of illustrating computer programming methods and their applications in business.

Note: The fee for this three-credit course is $270.
Evening
July 18-August 25, TuTh 6:00-9:00pm, Harbor Campus M/1/213, Mr Gutierrez, Sched No 751403, 3 Credits

MKT 670
Marketing Management

Focuses on the strategic decisions necessary to match organizational resources with market opportunities. Students learn to analyze market opportunities, to develop marketing plans and marketing mix strategies, and to manage the implementation and control of a marketing plan.

Prerequisite: AF 610.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/1/213, Mr Atac, Sched No 748858, 3 Credits

Computer Science

Please note: All computer science (CS) courses have been recently renumbered by the Department of Mathematics and Computer Science. Their former codes and numbers are indicated in parentheses. For further information contact the Department.

CS 622
(Formerly Math 630)
Theory of Formal Languages

This course treats languages from an abstract point of view as defined by formal grammars and by families of abstract machines. The Chomsky hierarchy and associated automata are covered. Emphasis is placed on context-free languages. Careful mathematical definition and proof is stressed throughout. This course does not involve programming. This course is of special interest to students interested in linguistics and in the theory of programming language compilers.

Prerequisites: CS 320 (Math 330) and CS 350 (Math 342); or permission of instructor.
Midday/Afternoon
May 31-July 28, MTuTh 11:45am-1:15pm, Harbor Campus W/2/126, Mr Simovici, Sched No 721765, 3 Credits

CS 630
(Formerly Math 680)
Database Management Systems

Databases and database management systems. Physical database organization. The relational model. Relational algebra syntax and semantics. Relational calculus, tuple and domain oriented. Relational calculus versus relational algebra. INGRES and QBE. Query optimization. Non-relational systems (hierarchical and network DBMSs). Distributed databases. Security aspects in databases.

Prerequisites: CS 310 (Math 301) and CS 320 (Math 680).
Morning
May 31-July 28, MTuTh 10:00-11:30am, Harbor Campus W/1/052, Mr Simovici, Sched No 721787, 3 Credits

Counselor Training

Coun 607
Theories of Personality

This course is designed to lead to an understanding of the issues underlying the development of personality theory and personality constructs. Personality theory and current research are examined through three central perspectives: Psychoanalytic Theory, Social Learning Theory, and Cognitive Development Theory. Measurement, assessment, and validation issues are also addressed.

Evening
May 31-June 30, MTuWTh 7:15-9:15pm, Harbor Campus M/2/621, Mr Houser, Sched No 715952, 3 Credits

Coun 608
Abnormal Psychology

A comprehensive view of abnormal behavior in modern times. The course makes use of the revised D.S.M. III classification systems of mental disorders and examines patterns of abnormal behavior including neuroses, psychosomatic conditions, psychosis including affective disorders, schizophrenias, behavior in childhood and adolescence, sexual dysfunctions, and drug abuse. There is, in addition, brief coverage of therapeutic treatments and their effectiveness.

Evening
July 5-August 4, MTuWTh 7:15-9:15pm, Harbor Campus M/2/621, Mr Jurgela, Sched No 716156, 3 Credits

Coun 614
Counseling Theory and Practice I

The purpose of this course is to provide grounding in the commonalities of counseling techniques and practice in utilizing various techniques. The course covers the essentials of interviewing, note taking, and report writing, and the role of diagnosis. Tapes and role playing are required.

Evening
May 31-June 30, MTuWTh 5:00-7:00pm, Harbor Campus M/2/420, Ms Cody-Murphy, Sched No 716356, 3 Credits

Coun 615
Counseling Theory and Practice II

A continuation of Counseling 614. This course considers such major theoretical approaches as dynamic, humanistic, behavioral, and others, including some non-traditional approaches, making use of tape recordings, films, written records of interviews, and role playing.

Prerequisite: Coun 614.
Evening
July 5-August 4, MTuWTh 5:00-7:00pm, Harbor Campus M/2/420, Ms Weinreh, Sched No 716556, 3 Credits

Coun 616
Group Counseling and Group Dynamics

An introduction to group dymanics which uses the group process of the class to provide experience of group membership and data for interpretation. Participation as a group member is required. Readings and lectures build a cognitive base for evaluating experiential learning.

Prerequisite: Coun 614.
Evening
May 31-June 30, MTuWTh 5:00-7:00pm, Harbor Campus M/2/621, Mr Houser, Sched No 716756, 3 Credits

Coun 632
Rehabilitation of the Drug Dependent

This course offers an intensive study of substance addiction, intervention, and treatment, with an emphasis on case studies.

Evening
May 31-June 30, MTuWTh 7:15-9:15pm, Harbor Campus M/2/621, Mr Sarmanian, Sched No 716956, 3 Credits

Coun 663
Psychology of Death and Dying

This course explores many issues related to death: loss, separation, anxiety, aging, terminal illness, euthanasia, and bereavement. Counseling techniques are discussed.

Evening
July 5-August 4, MTuWTh 7:15-9:15pm, Harbor Campus M/2/420, Mr Giuliano, Sched No 717150, 3 Credits

Special Program: Critical and Creative Thinking

July 5-July 22

Each summer the Graduate Program in Critical and Creative Thinking offers a special series of courses, conferences, workshops, and seminars for educational practitioners interested in incorporating critical and creative thinking skills into the educational process. Participants have the opportunity to work closely with UMass/Boston faculty and with leading experts from across the country. Major issues, theories, methods, and developments in the field are discussed, with special attention given to developing comprehensive and specialized curriculum, materials, and evaluation designs in the area of critical thinking which can be used during the upcoming school year.

All activities for this summer's program will take place at Wellesley College.

3-week, 3-credit courses*
July 5-July 22
(Note: The fee for each of these three-credit courses is $390.)

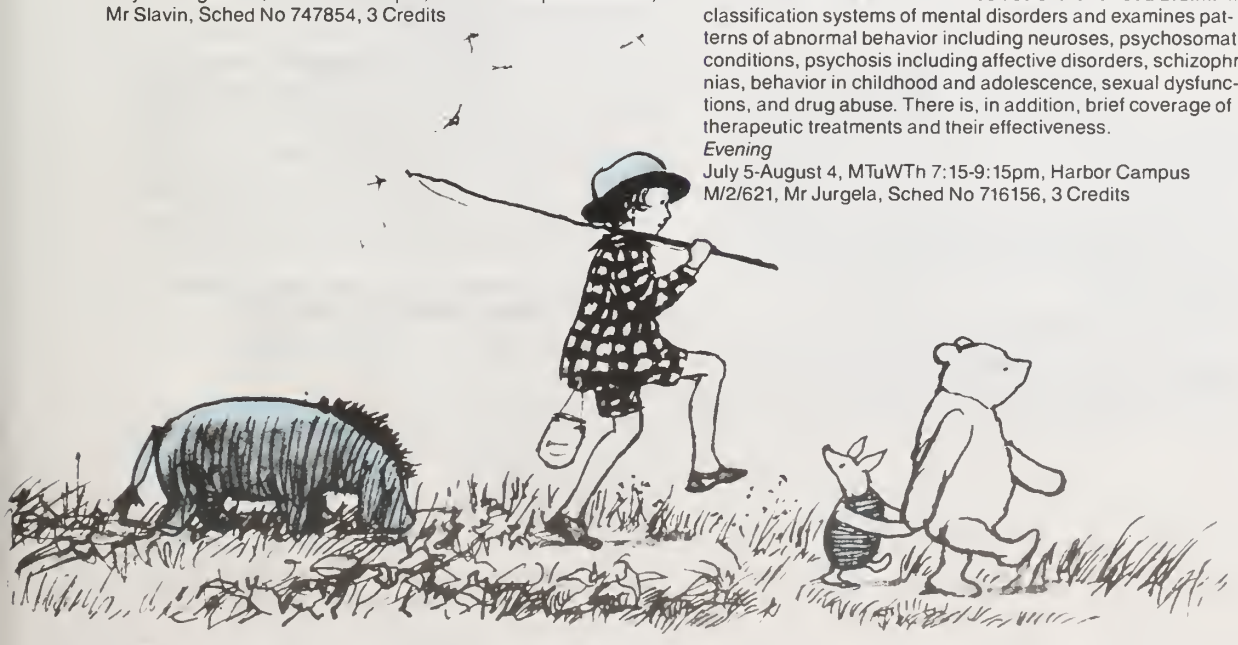
CCT 601
Critical Thinking
MTuThF 9:00am-12:00 noon
Ms Warren, Ms Wolff Sched No 717550, 3 Credits

Psych 650
Cognitive Psychology
MTuThF 9:00am-12:00 noon
TBA Sched No 766812, 3 Credits

CCT 602
Creativity
MTuThF 1 30-4 30pm
Ms Hopkins, TBA, Sched No 717572, 3 Credits

CCT 698
Practicum Infusing Critical Thinking into Subject-Area Instruction
MTuThF 1 30-4 30pm
Mr Swartz, Sched No 717594, 3 Credits

*Each of these courses meets either all morning or all afternoon, participants can thus take two courses for a total of six credits



What's at the end of the trail? Find out in Engl 375, Children's Literature. See page 9.

2-week, 3-credit course
July 11-July 22
(Note: the fee for this three-credit course is $390)

CCT 697L
Teaching Critical Thinking in College Courses
July 11-July 15 MTuThF 1:30-4:30pm and
July 18-July 22 MTuThF 9:00am-12 noon
1:30-4:30pm
Mr. Ruggiero. Sched No 720549. 3 Credits

1-week, 2-credit courses
July 11-July 15
(Note: the fee for each of these 2 credit courses is $260)

CCT 697J
Seminar for Administrators: Integrating Teaching for Critical and Creative Thinking into the School and the School System
MTuThF 9:00am-12:00 noon and 1:30-4:30pm
Mr. Barrell. Sched No 720000. 2 Credits

CCT 697K
Seminar on Classroom Techniques for Evaluating the Quality of Student Thinking
MTuThF 9:00am-12:00 noon and 1:30-4:30pm
Mr. Norris, Ms. Quemalz. Sched No 720400, 2 Credits

1-week, 1 credit courses
July 5-July 8
(Note: the fee for each of these 1-credit courses is $130)

CCT 697A
Thinking About Controversial Issues in the Classroom
TuWThF 9:00am-12:00noon
Ms. Teays. Sched No 718209. 1 Credit

CCT 697B
Developing Critical Thinking Lessons
TuWThF 1:30-4:30pm
Ms. Warren. Sched No 718409. 1 Credit

1-week, 1-credit courses
July 11-July 15
(Note: the fee for each of these 1-credit courses is $130)

CCT 697C
Reading and Critical Thinking
MTuThF 9:00am-12:00 noon
Ms. Phillips. Sched No 718609. 1 Credit

CCT 697D
Approaches to Teaching Thinking: A Framework for Comparison and Choices
MTuThF 9:00am-12:00 noon
Mr. Swartz, Mr. Perkins. Sched No 718809. 1 Credit

CCT 697E
Cognitive and Metacognitive Strategies
MTuThF 1:30pm-4:30pm
Ms. Hartman. Sched No 719003. 1 Credit

CCT 697G
Helping Students Think About Values
MTuThF 1:30-4:30pm
Ms. Warren. Sched No 719403. 1 Credit

1-week, 1-credit courses
July 18-July 22
(Note: the fee for each of these 1-credit courses is $130)

CCT 697F
The Thinking Classroom
MTuThF 9:00am-12:00 noon
Mr. Costa. Sched No 719203. 1 Credit

CCT 697H
Decision Making
MTuThF 1:30-4:30pm
Mr. Weinstein. Sched No 719603. 1 Credit

With the approval of the CCT Program Director, non-credit options are available for the courses listed above.

Non-Credit Offerings

A variety of non-credit activities on a number of topics conducted by various critical and creative thinking specialists will also be held at noontime, during the late afternoon and evening and on Wednesdays (the day no other classes meet). All conference participants enrolled in credit courses are invited to participate in any of these non-credit activities at no additional cost during their period of enrollment.

Practitioner's Conferences

Infusing Critical and Creative Thinking into Subject-Area Instruction
July 13, W 9:30am-4:30pm

Techniques for Developing Lessons and Teaching Critical and Creative Thinking Skills. Demonstrations of Newly Published Materials and Peer Coaching for Staff Development
July 20, W 9:30am-4:30pm
Staff

Noontime Seminars

Logic and Argument
July 5-July 8 TuWThF 12:15-1:15pm
Ms. Teays

Critical Thinking Skills
July 11-July 15 MTuThF 12:15-1:15pm
Ms. Warren

Moral Education
July 18-July 22 MTuThF 12:15-1:15pm
TBA

Demonstrations by classroom teachers of lessons and units that infuse critical and creative thinking into subject area instruction followed by discussion groups
July 5-July 22 MTuThF 4:30-5:30pm

Evening lectures by prominent writers in the field on issues concerning the teaching of critical and creative thinking alternate with videotape presentations followed by discussion
July 5-July 22 MTuTh 7:30-8:30pm

Demonstrations of materials from UMass Boston's Critical and Creative Thinking Resource Center
July 13-July 20 W 7:30-8:30pm

Lesson and Course Idea Exchange
A time and location will be set aside for conference participants to discuss personal experiences regarding the use of particular materials

Education (Elementary and Secondary)

Educ 610
Computers and Education
Introduction to how microcomputers work, including some hands on experience for both beginners and students with some experience in the use of microcomputers. This course contains a selected survey of current CAI computer literacy programs at the elementary and secondary levels, and of currently available educational software for microcomputers. Participants also explore the pedagogical issues raised by the use of microcomputers for students, teachers, and school administrators: consequences for learning, problem solving, organizing data, creativity, etc. Field research may require access to a microcomputer in a school setting.
Note: The fee for this three-credit course is $270.
Evening
May 31-June 30, TuWTh 5:00-8:00pm, Harbor Campus M/2/205, Staff, Sched No 724856, 3 Credits

Educ 644
Development Patterns for School Age Children K-12
This course explores the development of the child from infancy to adolescence. Major emphasis is placed on the cognitive, psychological, and affective development of the child, and on how these affect the teaching/learning process.
Evening
July 5-August 4, MTuW 5:00-8:00pm, Harbor Campus M/1/616, Ms. Anderson, Sched No 725050, 3 Credits

Special Program: Boston Writing Project Summer Institute

The Boston Writing Project offers teachers a variety of opportunities to become better teachers of writing. In all of its activities, teachers write, examine the writing processes used by themselves, their colleagues, and their students, study current research, theory, and practice in the teaching of writing, and approach the teaching of writing in a cross-disciplinary context.

Educ 697A
Summer Writing Institute
An interactive course in the teaching of writing for teachers from kindergarten to college. Teachers perform daily writing assignments and meet in small groups to discuss and improve their own writing. They also make formal presentations on some aspect of the teaching of writing, hear staff and consultant presentations on key topics in the field, and read current publications on theory, research, and practice in the teaching of writing. Those interested in enrolling in this course should call Dr. Joseph Check at the Institute for Learning and Teaching, 929-8530.
Note: The fee for this three-credit course is $75.00
Day
July 5-August 4, MTuWTh 9:00am-3:00pm, Harbor Campus M/3/617, Mr. Check, Sched No 725250, 3 Credits

Educational Administration

Educ 604
Philosophical Foundations of Education
An introduction to the more prominent philosophies that have influenced our contemporary educational institutions. Emphasis is placed on American philosophical schools and movements.
Evening
May 31-June 30, MTuWTh 7:15-9:15pm, Harbor Campus M/2/208, Staff, Sched No 700804, 3 Credits

Adm 646
Leadership Development
Concepts drawn from the behavioral sciences are used as a basis for leadership skill development. Participants engage in a series of leadership strategies in simulated situations which enable them to better understand, predict, and modify their own behavior and that of others in organizational settings.
Evening
May 31-June 30, MTuWTh 5:00-7:00pm, Harbor Campus M/2/208, Mr. McCarthy, Sched No 701008, 3 Credits

Adm 652
Group Processes and Interpersonal Relations
This course serves as an introduction to group dymanics and provides an understanding of the nature and significance of interpersonal relations within educational settings, especially as they apply to those holding administrative or supervisory positions.
Evening
July 5-August 4, MTuWTh 5:00-7:00pm, Harbor Campus M/2/208, Staff, Sched No 701208, 3 Credits

Adm 654
Advanced Seminar in Administration
Through group discussions, this course explores the major features of the major issues facing school systems today, and the implications of these issues for individuals in school leadership roles.
Evening
July 5-August 4, MTuWTh 7:15-9:15pm, Harbor Campus M/2/208, Staff, Sched No 701408, 3 Credits

English

Engl 697A
James Joyce
This course examines the idea that Shakespeare is the clue to the Joycean labyrinth. Study is focused on language, theme, and character in *Ulysses* and parts of *Finnegans Wake*. Special attention is given to Joyce's reading and creative misreading of *Hamlet*, the Sonnets and other of the major plays.
Registration in this seminar is limited to graduate students and must be approved by the Director of English Graduate Studies, Mr. Smith.
Evening
June 21-August 11, TuTh 4:45-7:15pm, Harbor Campus M/2/421, Mr. Tobin, Sched No 729351, 4 Credits

Instructional Design

InstDes 697A
Writing for the Business Professional
This course is designed for students seeking an introduction to the special skills of business writing. Working in an intensive laboratory environment, students learn to analyze and address an audience; to choose a format appropriate for their purposes; and to develop a clear concise writing style. Class sessions focus on the development of several types of marketing materials, training materials, and project proposals; each student has the opportunity to explore in depth an area of particular interest.
Evening
May 31-July 13, TuTh 6:00-9:00pm, Harbor Campus M/2/428, Staff, Sched No 737962, 3 Credits

InstDes 697B
Managing Training in Organizations
This course focuses on the elements of successfully managing an organization's training function. Areas of concentration include the training department as consultant; managing change and stress; understanding different management styles; delegating; communicating performance expectations to subordinates; and winning the commitment of management. Classes include small group instruction, video, exercises, and case studies.
Evening
May 31-July 13, MW 6:00-9:00pm, Harbor Campus M/1/428, Mr. Curran, Sched No 738166, 3 Credits

School Psychology

SchPsy 603
Individual Intelligence Testing
Administration, scoring, and interpretation of two individual intelligence tests (Wechsler Scales and Stanford Binet). Emphasis on a psychoeducational model of interpretation. The course considers the place of these instruments in a total evaluation of the individual, and discusses ethical considerations and the dangers of misuse. Students have classes also provide an opportunity for students to share feedback about administration experiences and protocol interpretation.
Evening
May 31-June 30, MTuWTh 5:00-7:00pm, Harbor Campus M/1/617, Mr. Cristiani, Sched No 775300, 3 Credits

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

SchPsy 604
Advanced Psychometric Techniques I
Explores devices of a projective and semi-projective nature, especially those instruments applicable to school psychology and mental health clinics. Focuses on investigation of the projective aspects of the Wechsler Scales, surface projectives, sentence completion, and draw-a-person.
Evening
May 31-June 30, MTuWTh 7:15-9:15pm, Harbor Campus M/1/617, Mr Hastings, Sched No 775500, 3 Credits

SchPsy 697A
Introduction to Neuropsychology for Clinicians and Educators
This course considers brain and nervous system functions in relation to sensing, perceiving, knowing, remembering, and expressing through language and other forms of communication. Case studies which exemplify human brain behavior and relationships, both normal and pathological, are studied and reviewed. Clinical, psychological, and neuropsychological approaches to identification, diagnosis, treatment, and habilitative retraining are discussed with a view to placement and educational/occupational planning.
Note: This course meets at the Multidisciplinary Institute of Neuropsychological Development (MIND) in Cambridge, MA.
May 31-June 30, TuTh 5:30-9:30pm, Cambridge, Ms Kris, Sched No 775700, 3 Credits

SchPsy 697B
Neuropsychological Assessment and Treatment Planning
This course reviews approaches to the neuropsychological study and assessment of children, adolescents, and young and older adults, from several theoretical and practical viewpoints. Existing test and measurement instruments to be reviewed include the Boston and Wisconsin tests, the Halstead-Reitan and Luria-Nebraska test batteries, and others more recently published. Participants study assessment instruments for evaluating mental status, psychic conditions, behavioral management, and different levels of development, and use these instruments in the analysis of case studies.
Note: This course will meet at the Multidisciplinary Institute of Neuropsychological Development (MIND) in Cambridge, MA.
July 5-August 4, TuTh 5:30-9:30pm, Cambridge, Ms Kris, Sched No 775900, 3 Credits

Special Education

SpEd 602
Language and Cognition
This course examines the normal development of communication and conceptual skills, analyzes diagnostic instruments for assessing deviations, and critiques a variety of classroom intervention strategies. The course includes field work.
Evening
July 5-August 4, MTuWTh 7:15-9:15pm, Harbor Campus M/1/614, Ms Binus, Sched No 772908, 3 Credits

SpEd 607
Behavioral and Classroom Management
This course identifies major theorists, techniques, and procedures for behavioral management within the classroom setting. Observational recording skills, contingency contracting, monitoring of behavioral progress will be presented. Focus is on effective use of behavioral management techniques using the candidate's teaching experience.
Evening
May 31-June 30, MTuWTh 7:15-9:15pm, Harbor Campus M/1/614, Ms Goodale, Sched No 773102, 3 Credits

SpEd 629
Consultation and Interpersonal Skills I
Moderate and generic teachers demonstrate an understanding of the principles involved in consultation and interpersonal skills. The course emphasizes intervention strategies and interviewing techniques. Discussions include dynamics of the team process, roadblocks to communication, and analysis of a school system with subsequent in-service recommendations. Course participants have an opportunity to apply these learned skills while at the same time examining theory.
Evening
July 5-August MTuWTh, 7:15-9:15pm, Harbor Campus M/1/617, Mr Toto, Sched No 773302, 3 Credits

SpEd 641
Developmental Patterns: Implications for the Special Educator
Candidates study the developmental patterns of children and adults with special needs in the physical, cognitive, perceptual, and psychological spheres. The focus of the course is habilitation and rehabilitation programming for individuals with special needs within the regular school.
Evening
July 5-August 4, MTuWTh 5:00-7:00pm, Harbor Campus M/1/614, Mr Kupperschmid, Sched No 773502, 3 Credits

SpEd 646
The Gifted and Talented Student
This special topics course provides participants with an overview of the gifted and talented student. Topics include the definition of "gifted," identification of the gifted and talented, and methods and programs geared to these students. Special areas to be addressed are the gifted and talented minority student, as well as the gifted and talented underachiever.
Prerequisite: SpEd 641.
Evening
May 31-June 30, MTuWTh 5:00-7:00pm, Harbor Campus M/1/614, Staff, Sched No 773702, 3 Credits

SpEd 697A
Cognition and Theories of Learning
This course focuses on the development of cognition and learning, and especially the educational and psychological implications of this development. Specific areas to be addressed include definition of and theories about cognition; perceptual and attentional development; spatial cognition and imagery; memory development; problem solving and creativity; and social cognition. Participants also explore some cultural and linguistic perspectives on cognition. Practical application includes observation and/or field experience.
Evening
July 5-August, MTuWTh 5:00-7:00pm, Harbor Campus M/1/617, Ms Goodale/Mr Toto, Sched No 774106, 3 Credits

Special Education Bilingual Courses

UMass/Boston has received a grant to provide graduate-level instruction to teachers and other educational personnel who deal directly or indirectly with bilingual special needs students. Partial or full scholarships are available to qualified applicants wishing to enroll in SpEd 697B, SpEd 697C, and SpEd 697D. Further information is available from:
Dr. Varda Konstam, Director
Graduate Program in Special Education
Institute for Learning and Teaching
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393
(617) 929-8590

SpEd 697B
Assessment Issues in Bilingual/Multicultural Special Education
This course focuses on assessment tools, both formal and informal, which are culturally sensitive and appropriate. Assessment is viewed within a larger context in order to address issues involving the overrepresentation of bilingual/multicultural students in special education settings.
Morning
July 5-August 4, MTuWTh 10:00am-12:00noon, Harbor Campus M/1/421, Staff, Sched No 774306, 3 Credits

SpEd 697C
Planning and Programming for the Bilingual/Multicultural Special Education Student
This course focuses on intervention strategies which are culturally sensitive and effective, and will study educational programming within a larger context, in order to address the unique issues of the bilingual/multicultural student.
Midday/Afternoon
July 5-August 4, MTuWTh 12:00-2:00pm, Harbor Campus M/1/210, Staff, Sched No 774506, 3 Credits

SpEd 697D
Case Studies in Bilingual/Multicultural Special Education
This course provides an opportunity to integrate skills in assessment, remediation, and programming for the bilingual/multicultural special education student, through a case study approach.
Evening
July 5-August 4, MTuWTh 5:00-7:00pm, Harbor Campus M/1/620, Staff, Sched No 774706, 3 Credits

The Auditor's Institute

A collaborative training program co-sponsored by the Division of Continuing Education and the Office of the State Auditor, the Institute is committed to providing persons interested in government and associated private-sector operations with the tools needed to promote the sound and efficient management of public resources.

The initial programs offered by the Institute have been created to help remedy financial and managerial weaknesses in the purchase-of-service system used by the Commonwealth.

The Institute's Management Development Course for administrators of government human service agencies and principals and members of vendor organizations will be offered this summer according to the following schedule:
May 3,4, TuW and May 9,10,11, MTuW 9:00am-4:30pm, Boston — Government Center Holiday Inn, Sched No 40100-51, Fee: $300
August 15-19, MTuWThF 9:00am-4:30pm, Buzzard's Bay — Massachusetts Maritime Academy, Sched No 40100-61, Fee: $300

Programs have also been designed to meet the needs of such specific clienteles as Massachusetts Trial Court fiscal personnel, Department of Public Welfare contract managers, and day-care providers under contract to the Department of Social Services.

The Institute welcomes requests for further information concerning its programs, as well as suggestions for new offerings. Further information about the Auditor's Institute is available from:
Division of Continuing Education
University of Massachusetts at Boston
Harbor Campus Boston, MA 02125-3393
(617) 929-7900

Corporate Fitness and Wellness: Current Status and Future Trends

Following an overview of the concepts of wellness and fitness, and of the cost, health, and productivity benefits such programs provide to sponsoring organizations, this seminar will focus on how to establish a corporate wellness and fitness program. Discussions will include all aspects: screening and testing, maintaining participant involvement, and marketing the program.
Day
June 16, Th 8:30am-5:00pm, Harbor Campus, Mr Thomas and staff, Sched No 77550-61, Fee: $90.00

Electrotherapy in Orthopedics and Sports Medicine

The purpose of this workshop is to help the clinician understand the physiological basis and the practical use of the most current electrotherapy techniques in the field of orthopedics and sports medicine. The workshop includes practical demonstrations of various protocols and equipment.
June 17, F 8:30am-3:00pm, Harbor Campus, Mr Black, Sched No 78000-61, Fee: $90.00

Emergency Service Training

Emergency Medical Technician Basic Course
The Emergency Medical Technician (EMT) plays an important role in the emergency medical service system by providing pre-hospital care to victims of sudden illness or injury. UMass/Boston's EMT training course fulfills state requirements for entrance to the state certification examination. Lectures are given by leading specialists in emergency care, and in-hospital experience takes place at a trauma center, under the supervision of physicians and nurses. The emphasis throughout the course is on skill development — extensive practice is designed to raise the level of psychomotor skills while reinforcing knowledge acquired through assigned readings. Course participants use the latest equipment in our simulated ambulance laboratories and have the benefit of close instructor supervision and videotape analysis of group practice sessions.
Evening
June 6-August 30, MTuTh 6:00-9:00pm, Downtown Center Mr Arnold, Sched No 37210-61, Fee: $370.00

Graduate Test Preparation Courses

Developed in conjunction with the Office of Career Services, these review courses provide intensive classroom sessions covering all sections of each exam. Each course provides extensive exam practice including a full-length practice test given under exam conditions. These courses have been scheduled in advance of the dates of tests for which students are preparing.

Review for the June 4 Graduate Record Examination
Evening
April 26-June 2, TuTh 6:00-9:00pm, Harbor Campus, Sched No 10000-61, Fee: $175.00

Review for the June 18 Graduate Management Admission Test
Evening
May 3-June 14, MTu 6:00-9:00pm, Harbor Campus, Sched No 10002-61, Fee: $175.00

Sports Medicine/Athletic Training Seminar

Participants learn about the assessment, diagnosis, and treatment of common sport and dance injuries. Lectures are followed by practical demonstrations of injury assessment and diagnosis. Three afternoon laboratory sessions provide instruction and practice in the most common sport tapings and wrappings. Leading sports medicine physicians, trainers, and physical therapists will lecture on modalities in sports medicine and the prevention and management of injuries.
Note: This course is also available with a two-academic credit option. See page 13 for further information.
Day
June 13-15, MTuW 8:30am-5:00pm, Harbor Campus
Mr Roncarati and staff, Sched No 77400-61, Fee: $235.00

Strength Training for Athletics

This workshop focuses on the design of strength training and speed development programs for all types of athletics. Special consideration is given to "weight lifter's shoulder" and other lifting injuries, to periodization and systematic weight training, and to the use of plyometrics for improved sports performance.
Day
June 16, Th 9:00am-5:00pm, Harbor Campus, Mr Emmert and staff, Sched No 77300-61, Fee: $90.00

Registration Form — Non-credit Courses

Please be sure to provide the numbers requested below. They are needed for coding purposes.

Social Security # ___ — ___ — Date

Name Last First Middle Initial

Address No Street City State Zip

Daytime Phone: ( )

Evening Phone: ( )

Date of Birth Mo Day Year

Course Selections

Sched. No.	Start Date	Title	Fee

MasterCard and VISA Only

The University of Massachusetts at Boston, Division of Continuing Education, will accept MasterCard or VISA for payment of fees. If you would like to make use of this service, please provide the information requested

Account No.

Expiration Date

Student's Name (Print)

Student's Signature

Print name of person to whom card was issued if different from above

If a student withdraws or a course is cancelled, the refund will be made only as a credit to the student's MasterCard or VISA account.

Note: when you use this form to register by mail, your cancelled checks will be your receipt. To register using company/agency purchase order, please call (617) 929-7933 between 9:00am and 5:00pm, Monday through Friday

Payment $

Late Fee (if applicable) $25.00

Total Payment Enclosed $

Full payment must accompany all registrations.

Method of Payment

O VISA O MasterCard

O Check O Other

Make checks payable to University of Massachusetts—Continuing Education

Send checks and forms to:
Division of Continuing Education
Box NC
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

For Office Use

Rec'd Date

Batch: Bank No.

For Office Use

How to Register for Non-Credit Courses

For your convenience, registration for continuing education courses is conducted primarily by mail or telephone. To register by mail for *non-credit* courses use the form on page 20. To register by telephone, you must charge fees to a MasterCard or VISA account. The number to call is 929-7933. To avoid paying a $20.00 late fee, you must register at least one week prior to the course starting date.

Students who would rather register in person may do so at the Division of Continuing Education's office at the Harbor Campus (Wheatley Hall, 2nd Floor, Room 203) during the following times: M-Th, 9:00am-5:00pm; F, 9:00 am-4:00pm (Please note that cash payments can be accepted only at the Bursar's Office at the Harbor Campus, Administration Building, 2nd Floor; M-F, 9:00am-3:30pm).

No matter how you register, you will receive written confirmation of your registration about a week before your course or program begins.

If you have further questions, call us at 929-7900.

● Register early!

Early registration helps assure that the course you want will be available when you need it. Why not mail or telephone your course selection now?

Summer Activities and Services for Students

All summer session students paying service fees may participate in the following activities.

Academic Advising and Tutorial Services

College of Arts and Sciences
Office of Academic Support and Advising
McCormack Hall, 3rd Fl., Rm. 625, 929-8220
M-F, 9:00am-5:00pm; evening hours by arrangement.

College of Management
Student Services and Advising Office
McCormack Hall, 3rd Fl., Rm. 415, 929-8105
M, 8:30am-6:30pm, T-F, 8:30-5:00pm

Harbor Art Gallery

This student-run gallery exhibits professional and student work. It is located on the first floor of McCormack Hall. Call 929-8282 for current information.

Film Series

Popular contemporary and classic films are featured weekly. Pick up the schedule in the Student Activities Office (Wheatley Hall, 4th Floor, Room 181) or watch for announcements in the *Mass Media*.

Lecture Series

Topical and controversial lectures are featured throughout the summer. Pick up the schedule in the Student Activities Office (Wheatley Hall, 4th Floor, Room 181) or watch for announcements in the *Mass Media*.

Athletics

The Catherine Forbes Clark Athletic and Recreation Center houses weight training, combative, and creative areas, two gymnasiums, a competition ice rink, and an Olympic-size swimming pool.

The Clark Center is open 10:00am to 7:00pm, Monday through Friday, and 1:00 to 5:00pm on Saturday and Sunday.

There are courts for handball, racquetball, and squash on the first floor of McCormack Hall, and racquetball courts on the third floor of Wheatley Hall. Interested students may sign up at each location.

An athletic field, eight tennis courts, and a softball field are available for student use. Organized activities are listed in a schedule available at the Athletics Office on the first floor of the Clark Center.

A current valid UMass/Boston ID is required for entrance to all University athletic facilities.

Swimming Program

Swimming instruction will be offered this summer according to the guidelines of the American Red Cross "Learn to Swim" program. Pick up a schedule in the Pool Office at the Clark Center.

Sailing Program

Sailing instruction is offered from June 1st through August 1st, Monday through Friday (weather and tide conditions permitting). Interested students must take a basic swimming test before registering for instruction. Appropriate certification is awarded according to the level of proficiency achieved.

Fifteen Mercury sailboats, five Lasers and eight rowing dories are available at the sailing dock, which is located adjacent to the pumphouse near the Healey Library.

Discount Tickets

Tickets for sporting and cultural events are available at reduced prices through the Student Activities Office (Wheatley Hall, 4th Floor, Room 181).

Mass Media

The student-run newspaper is published each Tuesday and is available at various locations on both campuses. Persons interested in working for the paper should apply in person in Wheatley Hall, 4th floor, Room 138.

WUMB

UMass/Boston's radio station operates at 91.9 on the FM dial and features a varied format of music and public affairs programming. WUMB also provides a student information service, WOSR, which broadcasts to several locations on the Harbor Campus and at the Downtown Center, including all cafeterias.

Concerts

Indoor and outdoor concerts are offered by the Student Activities Office. For a full schedule, visit the office in Wheatley Hall, 4th Floor, Room 181, or watch for announcements in the *Mass Media*.

Social Events

The Student Activities Office plans celebrations, festivals, and parties. For complete information, visit the office in Wheatley Hall, 4th floor, room 181, or watch for announcements in the *Mass Media*.

Information Sessions and Campus Tours

General information sessions take place at the Harbor Campus, in the Admissions Office Conference Room, 1st Floor, Administration Building: Mondays, 5:30pm; Wednesdays, 5:30pm; Thursdays, 9:00am; Fridays, 2:00pm. Guided tours of the campus leave from the Admissions Office Monday-Friday at 10:30am and 2:30 pm. Please call 929-8600 to confirm the date and time of any tour or session you wish to attend.

Admissions Seminars at the Downtown Center, for those interested in applying to the College of Public and Community Service, take place Tuesdays, at 9:00am or 6:00pm, in Room 907. No prior registration is necessary.

● Career Planning, Resume Writing, and Interviewing Techniques Workshops

The Office of Career Services is offering the following free workshops designed to equip students with the skills necessary for beginning a successful career. Each workshop is offered once during Summer Session I and once during Summer Session II.

Resume Writing
June 14, 1:00-2:30pm and July 26, 1:00-2:30pm

Interviewing Techniques
June 15, 1:00-2:30pm and July 27, 1:00-2:30pm

For further information, call the Office of Career Services at 929-7125.

● Health Promotion Programs

During the summer, the Health Promotion Program offers workshops, drop-in information/referral services, and special programs, including, among others, diet and weight management; a daily weigh-in; drop in, self-help, and group activities in smoker's liberation; and alcohol resource information.

For more information please contact the Health Promotion Program at the Harbor Campus, McCormack Hall, 1st Floor, Room 613, Monday-Friday, 9:00am-4:30pm, 929-7880/7881.

The Returning Students Program will offer a support group for returning students during the summer. If you are over 25, you may reduce stress, find resources, and keep your motivation high by joining the group now. June 1-August 10 Wednesdays, 1:30-2:30pm.

For more information please contact the Returning Students Program at the Harbor Campus, McCormack Hall, 2nd Floor, Room 412–414, Monday–Friday, 9:00am–4:30pm, 929-7315/7316.

Fees and Payments: General Information

Course Fees

Undergraduate	$65.00* per credit
Graduate	$80.00* per credit

Note: the standard course fee for a 1-credit undergraduate course would be $65.00*; and for a 3-credit course, $195.00.* In a few cases, however, a course fee may be calculated differently, because of special costs, or a subsidy. In these cases, the course fee is always included as part of the course description.

Lab Fees

Lab fees must be paid for certain courses as indicated in the schedule listings. The amounts of fees appear under schedule numbers for those courses requiring fees. The lab fee for each course must be paid at the time of registration. There is an additional $10.00 lab fee charge for participants in all courses using the Central Computer Center facilities.

Service Fees

Mandatory for all students

Registration Fee	$10.00
Educational Service Fee	5.00
Student Health Fee	20.00
Student Activities Fee	7.00
Student Athletics Fee	6.25
Late Registration Fee (when applicable)	25.00*
Bad Check Fee (when applicable)	25.00*

Independent Study

Only UMass/Boston students may register for Independent Study and must do so through the Scheduling Office, located in the Office of Registration and Records, after satisfying any departmental prerequisite(s). Students pay state course fees as follows:

Resident:	
Undergraduate	$54.00 per credit
Graduate	67.50 per credit
Non-resident:	
Undergraduate	$180.00 per credit
Graduate	188.50 per credit

Payment of Course and Service Fees

Students must pay in full before their registrations will be accepted. No payment will be accepted after the Add/Drop deadline of the session for which payment is intended. Students may use the following methods to make payment:

Check:

Please make out a separate check to cover the course fee (and lab fee, if applicable) for each course that is being requested, and a separate check for total Service Fees (Registration, Educational Service, Health, Activities, and Athletics; see Course and Service Fees above). Submission of separate check payments for each course allows the University to return payments immediately for an individual course that is no longer available. Any student who combines payment into one check does so at the risk of having the entire application returned or waiting until after the Add/Drop period for a refund.

Please make checks payable to the University of Massachusetts — Continuing Education.

A payment of course and service fees made with an unacceptable check will result in administrative withdrawal, an additional bad check fee of $25.00*, and referral to a collection agency, which may result in liability for the payment of a collection fee.

*Pending approval by the Board of Trustees.

MasterCard or VISA:

The University of Massachusetts at Boston will accept payment by MasterCard or VISA for all course and service fees. *The minimum acceptable MasterCard or VISA payment is $25.00.* Please fill out the appropriate section of the registration form when registering by mail.

Cash:

Cash payments can be made *only* at the Bursar's Office at the Harbor Campus. (Administration Building, 2nd Floor; M-F, 9:00am-3:30pm.) *The Bursar's Office will give you a receipt, which you must submit with your registration form.*

Payment by Outside Agencies

If the student's charges are to be paid by an outside agency, a payment authorization from that agency must accompany his or her registration if one is not on file in the Bursar's Office. Students are reminded that they are liable for course and service fees in the event that the sponsoring agency does not provide payment.

Course Fee Waiver and Remission Policy

The Division of Continuing Education will honor *course fee* waivers and remission of *course fees* for those persons meeting the eligibility requirements described below, providing the courses they wish to take are adequately supported by fees from paying students, and providing space is available in these courses. Credit course fee waivers and remission of credit course fees apply only at the standard rate of $65.00* per undergraduate credit and $80.00* per graduate credit. Thus, in the case of a credit course with extraordinary costs necessitating a higher than standard course fee, course fee waivers and remission will be granted for only the amount of the standard course fee. *Registration fees, service fees, and other mandatory fees, except in the case of senior citizens, must be paid in full.* Anyone wishing to apply for course fee waivers or remissions must do so when registering for courses; *the policy is not retroactive.*

See academic calendar for appropriate registration times.

Vietnam-era veterans are eligible for *course fee waivers* under the following conditions:

1. They must be matriculated in a program leading to a degree or certificate.
2. They must not have used their *course fee waiver* for more than 130 credits.
3. If they did not enter service while residing in the Commonwealth of Massachusetts, they must file an affidavit under oath attesting to their having resided in the Commonwealth for two consecutive years immediately preceding enrollment.
4. They must have their registration form approved by UMass/Boston's Veterans Affairs Office.

Senior citizens are eligible for a *waiver of all fees* upon submission of a notarized Senior Citizen Affidavit at the time of registration.

Full-time state employees are eligible for a 50% *course fee* remission upon submission of a properly completed "Certificate of Eligibility" at the time of registration (half-time state employees are eligible for a 25% course fee remission).

Full-time employees of public higher education, their spouses, and their dependent children are eligible for a 50% *course fee* remission upon submission of a properly completed "Certificate of Eligibility" at the time of registration (half-time employees of public higher education, their spouses, and their dependent children are eligible for a 25% *course fee* remission). The Division of Continuing Education cannot honor vouchers issued to cooperating practitioners by the state-funded programs of the University of Massachusetts at Amherst, Boston, or Worcester.

Summer Student I.D. Cards

I.D. cards are required for the use of such facilities as libraries and the Clark Athletic Center. They may be obtained at the Harbor Campus through the INFO Office (McCormack Hall, 1st Floor, Room 414) according to the following schedule: M-Th 9:30am-12 noon; 1:00-4:00pm; 4:30-6:30pm. The charge is $2.00. UMass/Boston students who have currently valid I.D. cards need not obtain summer I.D. cards.

*Pending approval by the Board of Trustees.

Cancellations

Summer session courses are conducted through the Division of Continuing Education, which is supported by student course fees. No state funding is available to help the Division of Continuing Education pay faculty salaries and meet overhead expenses. The Division must therefore cancel underenrolled courses. Before classes begin each term — generally during the week after the regular registration deadline — the Division projects enrollments according to the numbers of students already registered and decides whether to cancel courses that may be under-enrolled. Students are therefore encouraged to register early.

Any student who has registered for a course that is cancelled may register for another course or request a refund. The course fee will be refunded in full to any student who has paid for a cancelled course and does not wish to register for another course in its place. If all courses for which the student has registered are cancelled, service fees will also be refunded. *In all cases, it is the student's responsibility to initiate the refund procedure.*

Refunds

A student who withdraws from a course will be granted a refund according to the schedule below. Non-attendance does not constitute withdrawal. Students withdrawing from credit courses must file a valid withdrawal form at the Summer Session Registration Center. Students withdrawing from non-credit courses must file a valid withdrawal form with the Continuing Education Office.

For courses scheduled for ten or more class meetings:

Withdrawal before the first class meeting	100% Refund
Withdrawal before the second class meeting	90% Refund
Withdrawal before the third class meeting	50% Refund
Withdrawal after the third class meeting	No Refund

For courses scheduled for 6-9 class meetings:

Withdrawal before the first class meeting	100% Refund
Withdrawal before the second class meeting	80% Refund
Withdrawal after the second class meeting	No Refund

For courses scheduled for 1-5 class meetings:

Withdrawal before the first class meeting	100% Refund
Withdrawal after the first class meeting	No Refund

Whenever a refund is due, either because the student wishing the refund has withdrawn from a course or because the University has cancelled the course, *the student must initiate the refund procedure* by notifying the Summer Session Registration Center at the Harbor Campus (Science Building, 2nd Floor Lobby) either in person or by mail. Refunds will not be processed until after the Add/Drop periods.

The amounts of all refunds are computed on the basis of withdrawal dates established by the Office of Registration and Records.

If a student has made a payment with MasterCard or VISA, the refund must be returned as a credit to the student's MasterCard or VISA account.

Unless a course has been cancelled by the University, the $10 registration fee is not refundable. Please allow six to eight weeks for the processing of any refund.

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Academic Information

Academic Standing

A student who is suspended or dismissed from UMass/Boston may not enroll as a special student and may not take continuing education or summer session courses.

Adding and Dropping Courses

Any student may add or drop courses before the Add/Drop deadline (see "Academic Calendar"). The student should obtain an Add/Drop form from the Summer Session Registration Center at the Harbor Campus (Science Building, 2nd Floor Lobby), have the form signed by the instructors of the courses involved, and return the form to the Summer Session Registration Center.

Auditing

The auditing of certain courses may be possible with the permission of the department and the instructor. The auditing fee is the same as the course fee. Inquiries concerning the auditing of courses should be directed to the Division of Continuing Education Office, 929-7900.

Withdrawing From Courses

Any student withdrawing from a course after the Add/Drop deadline (see "Academic Calendar") will receive a grade of "W" for that course. Withdrawal forms are available at the Summer Session Registration Center at the Harbor Campus (Science Building, 2nd Floor Lobby). Failure to submit a withdrawal form before 4:00pm on the last day of the withdrawal period will result in a grade of "F". *Non-attendance does not constitute withdrawal.*

Transcripts

All students who wish transcripts sent to other schools must complete request forms in the Office of Registration and Records. The cost of an official transcript is $2.00.

Pass/Fail Option for UMass/Boston Students

A total of eight courses may be taken on a Pass/Fail basis by matriculated UMass/Boston students while the student is an undergraduate. When the student earns a Pass (P) grade, credits for the course count as graduation credits; but the grade has no bearing on the student's cumulative average. A Fail (F) grade affects the student's cumulative average as a regular "F" would.

During the summer the following regulations apply:

1. Only *one* course may be taken on a Pass/Fail basis.
2. A course taken Pass/Fail cannot exceed five credits.
3. A summer course taken on a Pass/Fail basis counts toward the maximum allowed number of eight.
4. A student wishing to take a course on a Pass/Fail basis must fill out a Pass/Fail card, available at the Office of Registration and Records. Any student submitting two Pass/Fail cards in one summer will not be allowed to take either course on a Pass/Fail basis.
5. A Pass/Fail card, once submitted, cannot be withdrawn after the Pass/Fail deadline of the session in question (see "Academic Calendar").

Regulations

Normal University regulations apply during the summer session, unless otherwise specified. Students are advised to consult the statements of these regulations available at the INFO Center in McCormack Hall or at the Office of Student Information Services (McCormack, 1st Floor, Room 414).

Grades

Letter grades reported by instructors are given numerical values according to the following chart.

A	4.0
A –	3.75
B +	3.25
B	3.0
B –	2.75
C +	2.25
C	2.0
C –	1.75
D +	1.25
D	1.0
D –	.75
F	.00
Inc	Incomplete
Y	Interim grade in a declared year-long course

The grade of Incomplete is reported only if personal circumstances of extreme difficulty, such as serious illness, have kept a student from completing a portion of his or her required classwork or from taking a final examination; or if an instructor requests that an Incomplete be given for scholarly reasons. If a student's record is such that he or she would fail a course regardless of the quality of work yet to be done, an "F" will be reported.

A student can obtain credit for an Incomplete taken in the summer term only by finishing the work of the course by the end of the following summer term. If the work is not completed by this time, the grade will be changed to an "F". The initiative for removal of the Incomplete grade rests with the student.

An Incomplete on a final grade report is not represented in the student's temporary grade point average. When the Incomplete is later converted to a grade, the average is calculated again and the student is notified.

Once a grade is submitted, it cannot be changed except by approval of the department chairperson.

Important Offices and Locations

Office of Registration and Records

Harbor Campus
Administration Building, 1st Floor, 929-7200
Summer hours (June 6-July 29): M-Th, 9:00am-6:00pm; F, 10:00am-5:00pm
At all other times: M-Th, 8:00am-7:00pm; F, 10:00am-5:00pm.

Office of Student Financial Management

Harbor Campus
Administration Building, 1st Floor, 929-7210
Summer hours (June 6-July 29): M-Th, 9:00am-6:00pm; F, 10:00am-5:00pm
At all other times: M-Th, 8:30am-7:00pm; F, 10:00am-5:00pm

The Student Financial Management Office provides assistance in the processing of grants, scholarships, loans, and work-study awards. It is also responsible for the coordination of all student employment on campus.

Student loans for the summer session are available to eligible matriculated or certificate students of the University of Massachusetts at Boston. Students should call or visit the Student Financial Management Office in April for further details. All other students should explore aid possibilities with the financial aid offices at their own institutions.

Educational benefits offered through the Veterans Administration may be used during the summer session. Veterans should contact the Office of Veterans Affairs for a determination of their eligibility.

Disabled Student Center

McCormack Hall, 1st Floor, Room 401, 929-8240
M-F, 9:00am-5:00pm; other hours by arrangement.

The Disabled Student Center provides a wide range of services and facilities, including an adaptive computer lab, readers, sign language services, and more. Disabled students are welcome to request these services by calling or visiting the center.

Child Care Center

Harbor Campus
Science Building, 1st Floor, Room 012, 929-7290
M-F, 8:00am-5:00pm

Downtown Center
2nd Floor, Room 028, 956-1037
M-F, 8:00am-5:00pm

Child care is available to summer students at UMass/Boston. The child care program is operated by trained personnel, and charges run on a subsidized fee scale. Children between the ages of 18 months and 7 years are eligible.

Bookstore

Harbor Campus
Administration Building, UL (Upper Level), 929-7250
M-Th, 8:30am-6:00pm; F, 8:30am-5:00pm.

The bookstore will be open longer hours during the beginning of each session.

Library Collections

The University Library's collection includes almost 500,000 books, and current subscriptions to more than 3800 American and foreign journals and newspapers. Its primary holdings are in the Joseph P. Healey Library, centrally located on the Harbor Campus plaza and easily accessible from the catwalk that connects all campus buildings. The CPCS Library at the Downtown Center has a collection heavily weighted towards the social sciences, serving students and faculty at the College of Public and Community Service. All holdings of both libraries are entered in the easy to use on-line public access catalog (OPAC) which has replaced the library's card catalog and which is accessible at both the Harbor Campus and the Downtown Center. Students and faculty in summer sessions may borrow from either library, but must present a valid university ID before books can be charged out. For more information, call the Reference Desk at Healey Library, 929-7635; or the CPCS Library, 956-1051.

Cafeterias

Harbor Campus
Administration Building, UL (Upper Level), McCormack Hall, 3rd Floor

Downtown Center
1st Floor

Veterans Affairs Office

Harbor Campus 929-7135
M-F, 8:30am-4:30pm

The Veterans Affairs Office assists all veterans in obtaining their educational benefits, and helps them to resolve related problems.

Parking

Parking is available at the Harbor Campus in two underground garages, designated LL (lower level) and UL (upper level). Operators of all vehicles, except motorcycles, must pay $2.00 per day to park in a garage (motorcycles: $1.25 per day). Discount tickets authorizing ten days' parking are also available at the parking booths for $15.00 (cars) or $7.50 (motorcycles).

Public Transportation

Free and frequent shuttle bus service is provided between the Harbor Campus and JFK/UMass (formerly Columbia) Station on the MBTA Red Line. Buses following MBTA Route 16B also stop at the Harbor Campus. The Downtown Center is within a short distance of the Arlington stop on the Green Line. A free shuttle bus service connects the two campuses.

Health Services

The University Health Service offers outpatient medical care, counseling, health education, and mental health programs for all enrolled students. Students may be seen by appointment or on a walk-in basis. *Medical Services* include unlimited medical visits, gynecological care, health counseling, routine laboratory work, minor surgery, dermatology, and referrals when necessary. *Mental Health and Counseling Services* provide personal growth counseling, crisis intervention, workshops, as well as information, consultation and referral, and walk-in emergency services. The *Peer Support Program* offers students assistance in dealing with the common problems of student life, whether academic, personal, or social. A drop-in center is provided which makes available everything from information, conversation, referral services and networking to support groups for returning students and assertiveness training. The *Returning Students Program* assists older students who have been out of school and are returning to the academic world. The *Health Promotion Program* supports the clinical efforts of the Health Service and promotes responsible health consciousness throughout the University community by sponsoring workshops, drop-in information/referral services and special events.

Medical Services

Main Facility (General Information)
(617) 929-7111, Harbor Campus, Administration Building, 2nd Floor, Room 040
Summer Session: M-Th, 9:00am-6:30pm; F, 9:00am-4:30pm

Park Square Clinic
(617) 956-1017, Downtown Center, Mezzanine Level
Summer Session: M-Th, 1:00-7:00pm

Mental Health and Counseling Services

Main Facility
(617) 929-7170, Harbor Campus, Administration Building, 2nd Floor, Room 015
Summer Session: MTh, 9:00am-6:30pm; TuWF, 9:00am-4:30pm

Park Square Clinic
(617) 956-1024, Downtown Center, Mezzanine Level
Summer Session: M-Th, 1:00-7:00pm

Returning Students Program and Peer Support Center

(617) 929-7315/7316, Harbor Campus, McCormack Hall, 2nd Floor, Room 412-414
Summer Session: M-F, 9:00am-4:30pm

Co-operative Education/ Internship Program

UMass/Boston students with thirty degree credits can earn three credits for paid or unpaid internship or co-op work experiences during the summer. Those interested in further information should call or visit the Co-op/Internship Office: Wheatley Hall, 2nd Floor, Room 203, 929-8495; M-F, 8:30am-5pm.

7 Ways to Learn More About UMass/Boston

1 Come to an information session at our Harbor Campus. Sessions for prospective undergraduates are held in the Admissions Office on Mondays and Wednesdays at 5:30pm, Thursdays at 9:00am, and Fridays at 2:00pm. To reach the Harbor Campus by car, take the Southeast Expressway to exit 14 (northbound) or exit 15 (southbound) and follow the signs; on the "T," take a Red Line Ashmont Train to JFK/UMass (Columbia) Station and our free shuttlebus the rest of the way.

3 Attend a CPCS Admissions Seminar. Seminars particularly for people who are interested in our College of Public and Community Service take place Tuesdays at 9:00am and 6:00pm in Room 907 at the Downtown Center, the home of CPCS, at Arlington and Stuart Streets in Park Square.

3 Take a guided tour of the Harbor Campus. Tours leave from the Admissions Office every Monday through Friday at 10:30am and 2:30pm. Special arrangements can be made for groups (call 617 929-8600).

4 For information about off-campus and Saturday courses, and other activities sponsored by our Division of Continuing Education, call 617 929-7900.

5 Drop in at our Enrollment Services Office on the ground floor of the Downtown Center. The office is open Mondays through Thursdays, 9:00am-7:00pm, through June 15. After that date, call the Office of Registration and Records (929-7200) for information on office hours.

6 Call our Office of New Student Services with any questions you may have about attending UMass/Boston. The number to use is 617 929-8600.

3 Send us this coupon. We'll be glad to respond.

_____
Name

_____
Number and Street

_____
City, State, Zip

_____
Month and Day of Birth (for coding only)

_____
Program of Particular Interest

Return to:
Office of New Student Services
University of Massachusetts at Boston
Harbor Campus
Boston, MA 02125-3393

Academic Programs at UMass/Boston

College of Arts and Sciences

Major Degree Programs
Anthropology*
Anthropology and History
Art
Biology*
Biology and Medical Technology
Black Studies
Chemistry
Classical Studies
Computer Science
Earth Science*
Economics*
Engineering
Physics
English*
French*
Geography*
German*
Greek
Greek and Latin
History*
Italian*
Latin
Mathematics (Pure or Applied)
Music*
Philosophy*
Philosophy and Psychology
Physics
Political Science*
Psychology*
Russian*
Sociology*
Spanish*
Theatre Arts*
*Students in the College may minor in these disciplines, as well as in management.

Programs of Study
American Studies
Biobehavioral Studies
Biology of Human Populations*
Black Studies
Communication*
Computer Science*
Creative Writing*
East Asian Studies
Engineering
Health Care Studies
International Relations
Irish Studies
Latin American Studies
Law and Justice*
Linguistics
Marxist Studies*
New England Historical Archaeology*
New England Prehistoric Archaeology*
Psychometrics
Public Policy
Study of Religion
Technical Writing*
Translation (Spanish)*
Urban Studies*
Women's Studies*
*Open to non-degree-seeking students.

Special Course Groupings
Armenian Language and Literature
Chinese Language and Literature
Humanities
Interdisciplinary Studies
Japanese Language and Literature
Portuguese Language and Literature

College of Management

Concentrations
Accounting
Decision Sciences
General Management
Human Resources Management
Management Information Systems
Manufacturing Operations Management
Marketing
Private Financial Management
Public Management
Service Operations Management

College of Public and Community Service

Career Certificate Programs
Adult Training in Human Services
Community Energy Planning*
Community Planning
Community Planning and Management
Community Service Management
Criminal Justice and Public Safety
Gerontology*
Human Services
Human Services Advocacy
Labor Studies*
Law Work*
Management of Human Services
Management of Legal Institutions
*Open to non-degree-seeking students.

Institute for Learning and Teaching

Major Programs
Early Childhood Education
Elementary Education

Certification Program
Secondary Education

School of Nursing

Major Programs
Nursing
Nursing for RNs

Program in Physical Education and Fitness

Concentrations
Sports Medicine
Exercise Science and Fitness Administration
Adapted Physical Education/ Therapeutic Recreation
Recreation/Leisure Studies
Dance
Teaching Physical Education (Elementary or Secondary)

Graduate Studies

Programs and Tracks of Study
American Civilization (MA)
Bilingual Education (MA)
Biology (MS)
Biology/Applied Marine Ecology (MS)
Biotechnology and Biomedical Science (MS)
Business Administration (MBA)
Chemistry (MS)
Computer Science (MS)
Counselor Training (MEd, CAGS)
Critical and Creative Thinking (MA)
Dispute Resolution (Graduate Certificate)
Education (Elementary and Secondary) (MEd)
Educational Administration (MEd, CAGS)
English (MA)
English/Composition (MA)
English as a Second Language (MA)
Environmental Sciences (PhD)
History (MA)
History/Archival Methods (MA)
History/Historical Archaeology (MA)
Human Services (MS)
Instructional Design (MEd)
Nursing (MS)
Applied Physics (MS)
Public Affairs (MS)
School Psychology (MEd, CAGS)
Applied Sociology (MA)
Special Education (MEd)

See "Location Key" on page 3 for explanation of campus, building, floor, and room codes (e.g., HC/M/3/618).

Useful Information

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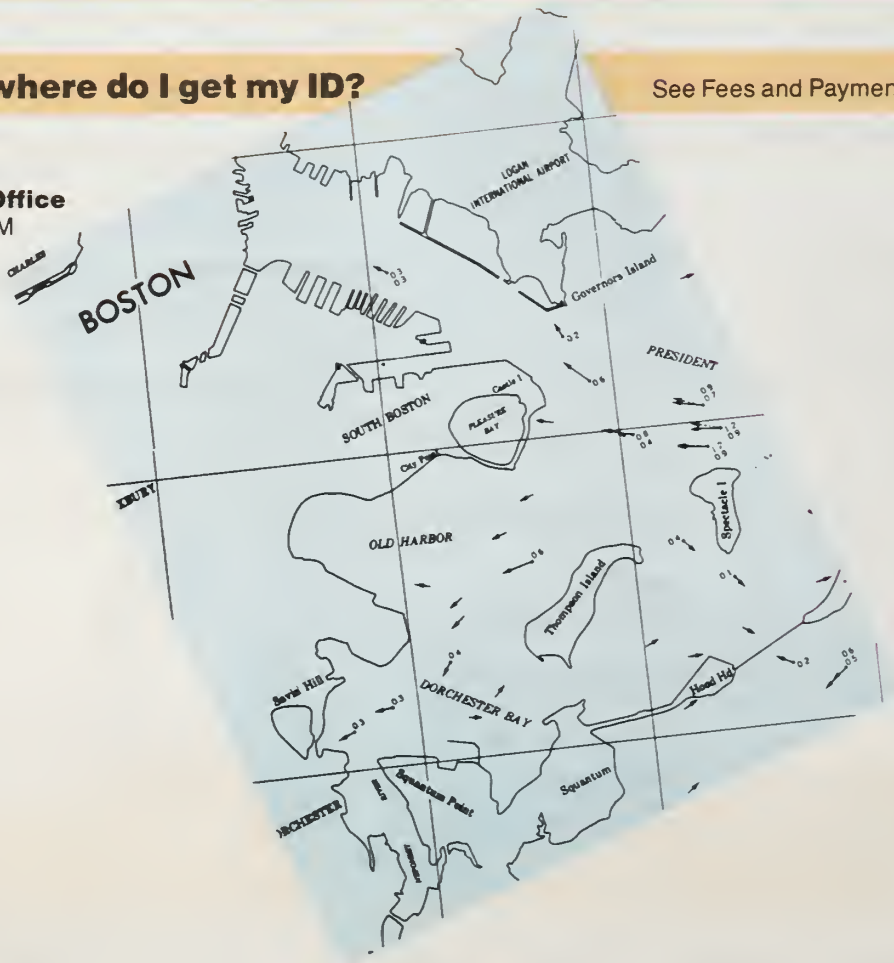
Publications Office
88.075/3.88/100M



Put this map to use!
See the Fox Point Marine Institute program on page 13.